INDEX NO. 18

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OZONE DATA FOR THE WORLD

CATALOGUE OF OZONE STATIONS AND CATALOGUE OF OZONE DATA FOR 1980-1983

PUBLISHED BY THE ATMOSPHERIC ENVIRONMENT SERVICE, DEPARTMENT OF THE ENVIRONMENT, IN CO-OPERATION WITH THE WORLD METEOROLOGICAL ORGANIZATION.

DONNEES MONDIALES SUR L'OZONE

CATALOGUE DES STATIONS D'OBSERVATION DE L'OZONE ET CATALOGUE DES DONNEES SUR L'OZONE POUR 1980-1983

PUBLIÉES PAR LE SERVICE DE L'ENVIRONNEMENT ATMOSPHÉRIQUE DU MINISTÈRE DE L'ENVIRONNEMENT EN COOPÉRATION AVEC L'ORGANISATION MÉTÉOROLOGIQUE MONDIALE.

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PREFACE

This publication is sponsored by the World Meteorological Organization in co-operation with the Atmospheric Environment Service, in accordance with Resolution 5 of the thirteenth session of the Executive Committee of WMO, and Resolution 12 of the fourteenth session, which provide for the central publication of summary data on atmospheric ozone. The data presented here have been obtained from countries in which or by whom ozone data observations have been carried out, in accordance with the instructions contained in the appendix to WMO Circular Letter 15.637/T/DR of 15 November 1962 and with the recommendations presented in the annex to WMO Circular Letter 12.835/T/ALO of 15 May, 1968. The information in these letters has been updated and included in Guidebook No. 2.

This publication was published annually for the years 1960 to 1964, inclusive. Commencing with the data for 1965, the publication is published on a bi-monthly basis in an effort to disseminate the data amongst research workers as quickly as possible. An annual cumulative "Catalogue of Ozone Stations and Ozone Data" is also published.

This publication will be distributed free of charge to Meteorological Services and research organizations which have a reciprocal arrangement (formal or informal) with the Atmospheric Environment Service for the exchange of publications, including automatically all groups who supply ozone data. Other organizations and individuals may receive the publication upon payment of the annual subscription rate of one dollar in Canadian funds, by money order made payable to the Receiver General for Canada. All inquiries should be addressed to:

World Ozone Data Centre
Atmospheric Environment Service
4905 Dufferin Street
Downsview, Ontario, Canada M3H 5T4

It may be noted that the standard forms, on which the data are to be entered, are available, free of charge, on application to the above address.

The yearly index is prepared to consolidate the information published annually in the Catalogue of Ozone Data and the information given previously in the Catalogue of Ozone Stations (WMO/OMM 127.TP.57). Station Record forms are sent to agencies responsible for the operation of ozone stations, and the information subsequently received on these forms is the basis for this catalogue. We expect to ask each operating agency once each year for a list of any ozone station program changes, including where applicable, a statement that no changes have occurred.

PREFACE

La présente publication est patronnée par l'Organization météorologique mondiale en coopération avec le Service de l'Environnement atmosphérique conformément à la résolution 5 de la treizième session du Comité exécutif de l'OMM et à la résolution 12 de la quatorzième session de ce Comité qui prévoient la publication centralisée d'un résumé de données sur l'ozone atmosphérique. Les données présentées dans cette publication, sont la contribution de pays qui effectuent des observations de l'ozone ou dans lesquels on effectue de telles observations conformément aux instruction données dans l'annexe de la lettre circulaire 15.637/T/DR envoyée par l'OMM le 15 novembre 1962 et aux recommendations présentées dans l'annexe de la lettre circulaire 12.835/T/ALO envoyée par l'OMM le 15 mai 1968. Les renseignements que l'on trouve dans ces lettres ont été mis à jour et font partie du guide n°2.

La présente publication a paru tous les ans de 1960 à 1964 inclusivement. Depuis 1965, la publication paraît tous les deux mois pour que les chercheurs entrent en possession des données aussi rapidement que possible. On publie également tous les ans un catalogue cumulatif des stations d'observation de l'ozone et des données sur l'ozone.

La présente publication sera distribuée sans frais aux services météorologiques et aux organismes de recherche qui ont un accord explicite ou tacite avec le Service de l'Environnement atmosphérique en vue d'un échange de publications, ainsi qu'à tous les groupes qui fournissent des données sur l'ozone. D'autres, organismes ainsi que les personnes intéressées peuvent recevoir cette publication sur abonnement. Le prix de l'abonnement annuel est de un dollar (canadien) payable par mandat poste établi à l'ordre du Receveur général du Canada. Toute demande de renseignements doit être envoyée à l'adresse suivant:

Centre mondial des données sur l'ozone
Service de l'Environnement atmosphérique
4905, rue Dufferin
Downsview (Ontario) Canada M3H 5T4

Veuillez noter que les formules normalisées pour l'inscription des données sont disponibles sans frais, sur simple demande envoyée à l'adresse ci-dessus.

L'index annuel est dressé pour regrouper les renseignements publiés pendant l'année dans le Catalogue des données sur l'ozone et les renseignements donnés précédemment dans le Catalogue des stations d'observation de l'ozone (OMM/WMO 127.TP.57). Les formules de relevé des stations sont envoyées aux organismes responsables de l'exploitation de stations d'observation de l'ozone et les renseignements ultérieurement transmis sur ces formules constituents la base de ce catalogue. Nous comptons demander une fois par an à chaque organisme d'exploitation une liste de toutes les modifica-

Index No. 18 includes a revised Catalogue of Ozone Stations and a Catalogue of Ozone Data for 1980-83. Index No. 6 is the final catalogue for data published prior to 1971 and should be retained. Index No. 14, is the final catalogue for 1971-1979 and should be retained. All other catalogues (Indexes 1-5, 7-13 and 15-16 may be discarded.

Index 17 and 18 contain TOMS-Ground station comparison, and Dobson calibration data and may also be retained.

Note: The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever by the publishers concerning the legal status of any country or territory or of its authorities, or concerning the delimitation of its frontiers.

tions de programme des stations d'observation de l'ozone, y compris, le cas échéant, une déclaration indiquant qu'il n'y a pas eu de changement.

L'index n°18 comprend un Catalogue révisé des stations d'observation de l'ozone et un Catalogue des données sur l'ozone de 1980-83. L'index n°6 est le catalogue définitif des données publiées avant 1971: il faut donc le conserver. L'index n°14 est le catalogue définitif des données publiées pendant 1971 à 1979: il faut donc le conserver aussi. On peut se défaire de tous les autres catalogue (index N°1-5, 7-13, et 15-16).

Les indexes N° 17 et 18 comprennant des comparisons TOMS avec des stations au sol, ainsi que des renseignements d'étalonnage des spectrophotomètres à ozone Dobson. Ces indexes devraient donc etre retenus.

NOTE: Les appellations employées et la présentation du matériel dans la présente publication ne sont en aucun cas l'expression de l'opinion des éditeurs quant au statut juridique d'un pays ou d'un territoire, à son administration ou à ses frontières.

EXPLANATION OF SURFACE OZONE TABLES

MEAN — The mean value of the partial pressure of surface ozone in whole nanobars based on the observed hourly mean values for the day.

MAX — Daily maximum in whole nanobars

HH — The nearest hour, GMT, of the daily maximum

DRN — Duration of a maximum in excess of 100 nanobars according to code 1

MIN — Daily minimum in whole nanobars

Monthly extremes and monthly means are calculated by computer at the World Ozone Data Centre.

Code 1 Duration of Maximum in Excess of 100 Nanobars

01-90	Duration in tens of minutes
91	" over 15 hours but not more than 16 hours
92	" " 16 " " " " " 17 "
93	" " 17 " " " " " 18 "
94	" " 18 " " " " " 19 "
95	" " 19 " " " " " 20 "
96	" " 20 " " " " " 21 "
97	" " 21 " " " " " 22 "
98	" " 22 " " " " " 23 "
99	" " 23 hours and up to and including 24 hours

EXPLANATION OF TOTAL OZONE TABLES

YY — Greenwich day of the month on which the observation is made.

GG — Time of observation to the nearest hour, Greenwich Mean Time; or number of observations which are averaged to obtain the value of XXX reported. The latter option is indicated by a special note. HH is blank for both cases. GG may be negative or greater than 24, if the time of observation falls on the adjoining GMT day.

HHGG — Nearest hours, GMT, between which all observations are made to obtain the average value reported for XXX. (From hour HH to hour GG).

EXPLICATION DU CODE DES TABLEAUX DE L'OZONE EN SURFACE

MOYENNE — Valeur moyenne de la pression partielle de l'ozone en surface, donnée en nanobars entiers et basée sur les valeurs moyennes horaires observées pendant la journée.

MAX — Pression maximale quotidienne en nanobars entiers.

HH — L'heure TMG la plus proche de l'occurence de la pression maximale quotidienne.

DRN — Durée d'une pression maximale supérieure à 100 nanobars, conformément au code 1.

MIN — Pression minimale quotidienne en nanobars entiers.

Les valeurs mensuelles extrêmes et moyennes sont calculées par l'ordinateur au Centre mondial des données sur l'ozone.

Code 1. Durée d'un pression maximale supérieure à 100 nanobars

01-90	durée en dizaines de minutes
91	durée supérieure à 15 hrs. mais inférieure ou égale à 16 h.
92	" " 16 " " " " " 17 "
93	" " 17 " " " " " 18 "
94	" " 18 " " " " " 19 "
95	" " 19 " " " " " 20 "
96	" " 20 " " " " " 21 "
97	" " 21 " " " " " 22 "
98	" " 22 " " " " " 23 "
99	" " 23 " et jusqu'à ou égale à 24 "

EXPLICATION DU CODE DES TABLEAUX DE LA QUANTITÉ TOTALE D'OZONE

YY — Jour du mois (TMG) où l'observation est effectuée.

GG — Heure de l'observation arrondie à l'heure TMG entière la plus proche; ou nombre d'observations dont on fait la moyenne pour obtenir la valeur XXX marquée. Cette dernière possibilité est indique par une remarque spéciale. HH reste en blanc dans les deux cas. Si l'heure de l'observation tombe le jour TMG qui précède ou qui suit, GG peut être négatif ou supérieur à 24.

HHGG — Heures TMG entières le plus proches entre lesquelles on effectue toutes les observations dont on fait la moyenne pour les obtenir la valeur donnée pour XXX. (de l'heure HH à l'heure GG).

L Wavelength(s) used, reported according to the following code:

0 - Wavelengths AD, ordinary setting
1 - " BD, " "
2 - " CD, " "
3 - " CC', " "
4 - " AD, focussed image
5 - " BD, " "
6 - " CD, " "
7 - " C " "
8 - other, to be specified
9 - " " " "

S Kind of observation, on sun, moon or sky, reported according to the following code:

0 - On direct sun
1 - On direct moon
2 - On blue zenith sky
3 - On zenith cloud (uniform stratified layer of small opacity)
4 - " " " (uniform or moderately variable layer of medium opacity)
5 - " " " (uniform or moderately variable layer of large opacity)
6 - " " " (highly variable opacity, with or without precipitation)
7 - " " " (fog)
8 - Other, as specified
9 - " " "

XXX Total amount of ozone in milli-atmo-centimetres (m atm-cm). (formerly referred to as 10^{-3} STPcm)

L Longueur(s) d'onde utilisée(s) conformément au code suivant:

0 - longueurs d'onde AD réglage normal
1 - " " BD " "
2 - " " CD " "
3 - " " CC', " "
4 - " " AD image mise au point
5 - " " BD " " " "
6 - " " CD " " " "
7 - " " C " " " "
8 - autres longueurs d'onde (préciser)
9 - " " " "

S Genre d'observation du soleil de la lune au du ciel indiquée conformément au code suivant:

0 - rayonnement solaire direct
1 - rayonnement lunaire direct
2 - rayonnement du ciel clair au zénith
3 - nuage au zénith (couche uniforme stratifée, de faible opacité
4 - " " " (couche uniforme ou modérément variable, d'opacité moyenne)
5 - " " " (couche uniforme ou modérément variable, de forte opecité)
6 - " " " (opacité très variable avec ou sans precipitation)
7 - " " " (brouillard)
8 - autres conditions (préciser)
9 - " " " "

XXX Quantité totale d'ozone en milli-atmo-centimètres (m atm-cm). (autrefois appelée 10^{-3} cm TPN)

MEAN — Sum of daily values of XXX, divided by the number of days on which observatons are made.

NOTE — Pertinent supplementary information, such as: confidence level for accuracy of observations (high, moderate, low, doubtful); changes in equipment.

EXPLANATION OF UMKEHR OBSERVATION TABLES

These tables are printed by a computer and some changes in the standard WMO symbols have been necessary.

IIIII — WMO station number

YY — Greenwich day of the month on which the Umkehr observation is made. The Greenwich day of the month for an Umkehr observation is the day, Greenwich time, upon which local noon falls.

MM — Greenwich month

JJ — Greenwich year

H — Time of observation, according to the following code:

0 - time not known
1 - a.m. (before local noon)
2 - p.m. (after local noon)

L — Wavelengths used, according to the following code:

1 - Wavelengths A
2 - Wavelengths B
3 - Wavelengths C
4 - Wavelengths D

LSXXX — Same as LSXXX, as explained for Total Ozone Tables, refers to the total amount of ozone applicable to the Umkehr observation.

NNN — (Log I'/I + constant) to 3 decimal places for the zenith angle of the sun indicated in the column heading. The zenith angle is given to the nearest tenth of a degree, with the decimal point omitted. When (log I'/I + constant) exceeds unity, the integer is omitted, i.e., (log I'/I + constant) = 1.231 is coded as NNN = 231. In the computer print-out, leading zeros are not supplied; thus NNN = 031 is printed as 31. Missing data are printed as -1.

MOYENNE — Somme des valeurs journalières de XXX divisée par le nombre de jours d'observation.

REMARQUE — Renseignements complémentaires pertinents du type: degré de confiance que l'on peut accorder aux observations (très précises, assez précises, peu précises, d'une précision douteuse); modifications de l'équipement.

EXPLICATION DES CODES DES TABLEAUX DES OBSERVATIONS UMKEHR

Ces tableaux sont imprimés par ordinateur et il a fallu changer certains symboles normalisés de l'OMM.

IIIII — Indicatif attribué à la station par l'OMM

YY — Jour du mois (TMG) où l'on a effectué l'observation Umkehr. Pour une observation Umkehr, le jour TMG du mois est le jour, heure TMG, sur lequel tombe le midi du lieu.

MM — Mois TMG

JJ — Année TMG

H — Heure de l'observation conformément au code suivant:

0 - heure inconnu
1 - a.m. (avant midi, heure locale)
2 - p.m. (après-midi, heure locale)

L — Longeurs d'onde utilisées conformément au code suivant:

1 - longueurs d'onde A
2 - longueurs d'onde B
3 - longueurs d'onde C
4 - longueurs d'onde D

LSXXX — Comme pour LSXXX, selon l'explication donnée pour le tableau de la quantité totale d'ozone, se rapporte à la quantité totale d'ozone applicable aux observations Umkehr.

NNN — (Log I'/I + constante) à 3 décimales pour l'angle zénithal du soleil indiqué dans l'en-tête de la colonne. L'angle zénithal est arrondi au dixième de degré le plus proche, le point décimal étant omis. Si (log I'/I + constante) est supérieur à l'unité, le nombre entier est omis, par example (log I'/I + constante) = 1.231 est code NNN = 231. L'ordinateur n'imprime pas les zéros qui précèdent les chiffres significatifs. Par conséquent NNN = 031 apparaît sous forme imprimée comme 31. Les données manquantes sont imprimées -1.

EXPLANATION OF TABLES OF VERTICAL DISTRIBUTION OF OZONE FROM UMKEHR OBSERVATIONS

YY
MM
JJ — Greenwich day, month and year for the Umkehr observations.

The letters "A" or "P" immediately following the data refer to a.m. (morning) or p.m. (afternoon) observations, respectively. Where this information is not available an "X" is printed.

COL.A — The number of the standard vertical distribution from which the solution was computed.

Distribution 1 refers to intermediate total ozone amount.

Distribution 2 refers to low total ozone amount.

Distribution 3 refers to high total ozone amount.

COL.B — The number of the greatest zenith angle for which observations were available.

Zenith angle 1 is 90°
Zenith angle 2 is 89°

COL.C — The number of the smallest zenith angle for which observations were available.

Zenith angle 12 is 60°
Zenith angle 11 is 65°
Zenith angle 10 is 70°

Layer-Mean Ozone Partial Pressures

Layer Numbers	Pressure Range (mb)
1	500 - 250
2	250 - 125
3	125 - 62.5
4	62.5 - 31.2
5	31.2 - 15.6
6	15.6 - 7.8
7	7.8 - 3.9
8	3.9 - 1.96
9	1.96 - 0.98

EXPLICATION DU CODE DES TABLEAUX DE LA RÉPARTITION VERTICALE DE L'OZONE D'APRES LES OBSERVATIONS UMKEHR

YY
MM
JJ — Jour, mois et année TMG de l'observation Umkehr.

Les lettres "A" ou "P" placées immédiatement après la date signifient que les observations ont été faites respectivement le matin (a.m.) ou l'après-midi (p.m.). Lorsqu'on ne dispose pas de ce renseignement, on imprime X.

COL.A — Le numéro de la répartition verticale type à partir de laquelle on a calculé la solution:

La répartition 1 se rapporte à une quantité totale moyenne d'ozone.

La répartition 2 se rapporte à une faible quantité totale d'ozone.

La répartition 3 se rapporte à une forte quantité totale d'ozone.

COL.B — Le numéro de plus grand angle zénithal pour lequel on a des observations.

1 correspond à un angle zénithal de 90°
2 correspond à un angle zénithal de 89°

COL.C — Le numéro du plus petit angle zénithal pour lequel on a des observations

12 correspond à un angle zénithal de 60°
11 correspond à un angle zénithal de 65°
10 correspond à un angle zénithal de 70°

Pressions partielles de l'ozone au niveau moyen de la couche.

Numéros de la couche	Intervalle de pression (mb)
1	500 - 250
2	250 - 125
3	125 - 62.5
4	62.5 - 31.2
5	31.2 - 15.6
6	15.6 - 7.8
7	7.8 - 3.9
8	3.9 - 1.96
9	1.96 - 0.98

The layer-mean partial pressure from the earth's surface to 500 mb is very nearly the same as that in layer 1. The amount of ozone above 0.98 mb is assumed to be 54% of the amount in layer 9.

Total Ozone - The solution total ozone is obtained from the partial pressures given in the main body of the table. The observed total ozone will generally be the value supplied with the data although adjustments may be made to observed data for individual stations if solution total ozone is consistently larger or smaller than the observed value by a significant amount.

Residual - This is the root-mean-square residual difference between the observations at the various zenith angles and the observations as reconstructed from the derived vertical distribution. Units are 100 log units. Cases where the residual exceeds 0.70 are not included in the statistical summaries.

Method - The method used to estimate the vertical distribution of ozone from the Umkehr observations is that developed by Mateer and Dutsch (1964) in a project sponsored in part by WMO through a grant to the International Association for Meteorology and Atmospheric Physics. Effective with data observed on and subsequent to 1 January 1968, the original evaluation method has been modified to take account of the change in the ozone absorption coefficients recommended by the International Ozone Commission (see WMO Circular Letter 12.835/T/ALO of 15 May 1968). The new Umkehr distributions are about 7.5% higher than data published for observations prior to 1 January 1968 and are consistent with the total ozone data in this publication.

Summary - Two types of summary forms are used to provide statistical data on the vertical distribution of ozone as derived from Umkehr observations. One of these is used to provide statistical data for the year at hand. The second is used to report statistical data based on all data available for each station. The data on these tabulations are mostly self-explanatory. The numbers in parentheses refer to the number of vertical distributions entering into the averages for each month. The overall averages are averages of the monthly (not the individual) values. The overall standard deviations are the standard deviations of the monthly means about the annual mean. In computing long-term statistical data, Umkehr distribution data published prior to 1 January 1968 have been adjusted to be consistent with the ozone absorption coefficients now in use.

La pression partielle au niveau moyen de la couche, de la surface de la terre à 500 mb, est à peu près égale à la pression de la couche 1. On admet que la quantité d'ozone au-dessus de 0.98 mb est égale à 54% de la quantité d'ozone de la couche 9.

Quantité totale d'ozone - On obtient la quantité totale d'ozone calculée à partir des pressions partielles qui figurent dans la partie principale du tableau. La quantité totale d'ozone observée sera généralement la valeur fournie avec les données mais il faut peut-être corriger les valeurs observées pour certaines stations si la quantité totale d'ozone calculée est régulièrement bien inférieure ou bien supérieure à la valeur observée.

Résidu - Il s'agit de la moyenne quadratique de la différence résiduelle entre les observations pour les différents angle de zénith et les observations que l'on déduit de la répartition verticale dérivée, l'unité étant le 100 log. Les résumés statistiques ne comprennent pas les cas où le résidu est supérieur à 0.70.

Méthode - Pour donner une estimation de la répartition verticale de l'ozone à partir des observation Umkehr, on se sert de la méthode mise au point par Mateer et Dutsch en 1964 au cours d'une étude patronnée en partie par l'OMM qui a versé une subvention à l'Association internationale de météorologie et de physique de l'atmosphère. La méthode d'évaluation originale fut modifiée pour tenir compte des modifications des coefficients d'absorption de l'ozone recommandées par la Commission internationale de l'ozone (voir la lettre circulaire 12835/T/ALO, OMM, 15 mai 1968) et la nouvelle méthode fut appliquée à toute les données observées à partir du 1er janvier 1968. Les nouvelles répartitions Umkehr sont environ 7.5% plus élevées que les données pour les observations faites avant le 1er janvier 1968 et concordent avec les données relatives à la quantité totale d'ozone de la présente publication.

Relevé - On se sert de deux types de formules de relevé pour les données statistiques relatives à la répartition verticale de l'ozone obtenue à partir des observations Umkehr. L'une des formules est utilisée pour les données statistiques de l'année en cours. La seconde est un rapport de données statistiques basé sur toutes les données disponibles pour chaque station. En général, les données qui figurent dans ces tables s'expliquent d'elles-mêmes. Les nombres entre parenthèses sont les nombres de répartitions verticales dont on se sert pour faire les moyennes chaque mois. Les moyennes générales sont des moyennes des valeurs mensuelles (et non pas des valeurs prises individuellement). Les écarts-types généraux sont les écarts-types des moyennes mensuelles et de la moyenne annuelle. Pour le calcul des données statistiques à longue échéance, les données relatives à la répartition Umkehr publiées

Quality Control - Observed Umkehr data are first screened by a computer program which subtracts an appropriate "standard" Umkehr curve from the observed curve points and makes a simple smoothness check on the residual differences. The country or institute supplying the data is asked to confirm or correct any values which appear to be in error. The corrected data are then processed again to obtain an estimate of the vertical ozone distribution. Finally, these vertical distributions are scrutinized and those which are physically implausible and/or for which the derived Umkehr curve fits rather poorly with the observed Umkehr curve are rejected.

The reason for this admittedly somewhat arbitrary rejection of the derived vertical distributions in such cases lies first in the desire of the editors to present only vertical distribution data which they are reasonably certain are of good quality. However, there are also physical grounds for this action. The effects of absorption and scattering by atmospheric aerosols are not included in the theory on which the evaluation method is based and certainly cannot be, without additional auxiliary observations. Thus the derived vertical distributions are valid (within the other physical limitations of the Umkehr method) only if these effect are negligible or do not change much during the course of the Umkehr observation. Such changes will not be apparent to the observer unless he has special measuring apparatus to detect them. These effects are believed to be the major physical cause leading to the rejection of vertical distributions.

Rejected cases will be returned to the country or institute concerned for further examination and may be included in a future volume of this publication if a careful re-examination of the original observations suggests correction.

The evaluation program can be used only when observations are available for an adequate range of zenith angles. Observations which have an inadequate range of zenith angles are, however, included in the listing of observed Umkehr data.

The Umkehr method is particularly insensitive to changes in low-level (tropospheric and lower stratospheric) ozone. The occasional negative partial pressures that occur in layer 1 should, therefore, be taken as an indication of low tropospheric ozone content. In addition, when the mean partial pressure in layer 1 is substantially higher than in layers 2 and/or 3, this is an error in the opposite direction and again tropospheric ozone content is probably low.

avant le 1er janvier 1968 ont été corrigées pour qu'elles concordent avec les coefficients d'absorption de l'ozone dont on se sert actuellement.

Contrôle de la qualité - Les données Umkehr observées sont d'abord sélectionnées par un programme machine qui soustrait les points d'une courbe Umkehr type approprié des points de la courbe observée et qui procède à une simple vérification de lissage des différences résiduelles. Le pays ou l'organisme qui a fourni les données est prié de confirmer ou de corriger toute valeur qui semble ne pas convenir. Il y a ensuite un autre traitement des données corrigées pour obtenir une valeur estimative de la répartition verticale de l'ozone. En fin de compte, ces répartitions verticales sont attentivement examinées et l'on rejette celles qui sont physiquement peu plausibles ou pour lesquelles la courbe Umkehr dérivée correspond mal à la courbe Umkehr observée.

On procède à ce rejet quelque peu arbitraire des répartitions verticales dérivées dans ces cas, toute d'abord parce que les responsables de la publication veulent ne présenter que des données de bonne qualité sur la répartition verticale. Mais il y a également des raisons physiques à cela. Il n'est pas tenu compte des effets de l'absorption et de la dispersion par les aérosols atmosphériques dans la théorie qui est à la base de la méthode d'évaluation et il n'est certainement pas possible d'en tenir compte sans faire des observations auxiliaires supplémentaires. Par conséquent, les répartitions verticales dérivées ne sont valables (compte tenu des autres limitations physiques de la méthode Umkehr) que si ces effets sont négligeables et ne changent pas beaucoup pendant l'observation Umkehr. L'observateur ne s'aperçoit de changements de cette nature que s'il dispose d'appareils de mesure spéciaux pour les détecter. On pense que ces effets constituent la principale cause d'origine physique de rejet des répartitions verticales.

Les cas rejetés seront retournés au pays ou à l'organisme intéressé pour plus ample étude et peuvent être publiés ultérieurement s'il est possible de suggérer des corrections après une étude attentive des observations originales.

On ne peut se servir du programme d'évaluation que si l'on dispose d'une gamme suffisante d'angles de zénith. Les observations pour lesquelles la gamme d'angles de zéuith est insuffisante font cependant partie de la liste des données Umkehr observées. La méthode Umkehr est particulièrement insensible aux modifications de l'ozone aux niveaux inférieurs (troposphère et stratosphère inférieure). Les pressions partielles négatives que l'on trouve parfois dans la couche 1 doivent donc être considérées comme une indication de faible teneur en ozone troposphérique. De plus, lorsque la pression partielle moyenne dans la couche 1 est bien supérieure à la pression dans les couches 2 et 3 il s'agit d'une erreur dans l'autre sens et la teneur en ozone troposphérique est probablement aussi faible.

REFERENCES

Mateer, C.L., and H.U. Dutsch, 1964: Uniform evaluation of Umkehr observations from the world ozone network. Part 1: Proposed standard Umkehr evaluation technique. Boulder, National Center for Atmospheric Research, 105p.

EXPLANATION OF TABLES OF VERTICAL DISTRIBUTION OF OZONE FROM OZONESONDE OBSERVATIONS

DATE Greenwich day, month and year of observation, followed by the nearest hour GMT (Z) for balloon release.

LSXXX As explained for Total Ozone Tables, refers to the total amount of ozone applicable to the vertical distribution.

O3P For chemical soundings, the total amount of ozone below the lowest total pressure (PPPP) for which ozone partial pressure (P3) is reported in the tables; for optical soundings, the total amount of ozone above the lowest total pressure. Asterisk * indicates that the O3P value listed was calculated by computer at Toronto. Unit is m atm-cm.

FACTOR Quantity by which the integrated total ozone determined from the sounding measurements has been multiplied in order to achieve agreement with XXX. If blank, this factor was not provided by the country or institute supplying the data.

SONDE Instrument type used to determine ozone partial pressures.

PPPP Total atmospheric pressure in mb.

P3 Ozone partial pressure in μmb (10^{-6} mb). Missing data indicated by -1.

TTT Air temperature in degrees Celsius.

DDD Wind direction in whole degrees.

FFF Wind speed in m/s.

BIBLIOGRAPHIE

Mateer, C.L. et H.U. Dütsch, 1964: Uniform evaluation of Umkehr observations from the world ozone network. Part 1: Proposed standard Umkehr evaluation technique. Boulder, National Center for Atmospheric Research, 105 p.

EXPLICATION DES CODES UTILISÉS DANS LES TABLEAUX DE RÉPARTITION VERTICALE DE L'OZONE D'APRES LES SONDAGES DE L'OZONE

DATE Jour, mois et année TMG de l'observation et heure TMG (Z) la plus proche du lâcher du ballon.

LSXXX Comme dans les tableaux de la quantité totale d'ozone, se rapporte à la quantité totale d'ozone applicable à la répartition verticale.

O3P Pour les sondages effectués à l'aide de sondes chimiques, c'est la quantité totale d'ozone au-dessous du niveau de la pression totale la plus faible (PPPP) pour lequel la pression partielle de l'ozone (P3) figure dans les tableaux. Pour les sondages effectués à l'aide de sondes optiques, il s'agit de la quantité totale d'ozone au-dessus du niveau de la pression totale la plus faible. L'astérisque * indique que la valeur O3P a été calculée par ordinateur à Toronto. Unité: m atm-cm.

FACTEUR Quantité dont on a multiplé la quantité totale d'ozone intégrée obtenue à partir des mesures de sondage pour que les résultats concordent avec XXX. S'il y a un blanc, c'est que le pays ou l'organisme qui a envoyé les données n'a pas indiqué le facteur.

SONDE Type d'instrument utilisé pour déterminer les pressions partielles de l'ozone.

PPPP Pression atmosphérique totale donnée en mb.

P3 Pression partielle de l'ozone donnée en μmb (10^{-6} mb) Les données manquantes sont indiquées par -1.

TTT Température de l'air en degrés Celsius.

DDD Direction du vent en degrés entiers.

FFF Vitesse du vent en m/s.

NOTE Pertinent supplementary information.

JZONE DATA AVAILABLE ON MAGNETIC TAPE

It may be noted that the World Ozone Data Centre has prepared magnetic tapes which contain ozone data published in "Ozone Data for the World" as follows:

Total Ozone: 1957 - 1983, inclusive;
Vertical Distribution of Ozone from Umkehr Observations: all available up to 1983, inclusive;
Ozonesonde: 1962 - 1983, inclusive.
Surface Ozone from unpolluted stations, all available to 1983.

All total ozone means are calculated by computer.

The Umkehr vertical distribution data observed prior to January 1, 1968, have been re-evaluated to take account of the changes in ozone absorption coefficients effective on that date.

The data tapes are available from the Centre at cost. For further details, inquiries should be addressed to the World Ozone Data Centre.

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NOTE Renseignements complémentaires pertinents.

DONNÉES RELATIVES A L'OZONE DISPONIBLES SUR BANDE MAGNÉTIQUE

Il faut remarquer que le Centre mondial des données sur l'ozone a préparé des bandes magnétiques sur lesquelles sont enregistrées les données sur l'ozone publiées dans les "Données mondiales sur l'ozone" comme suit:

Quantité totale d'ozone de 1957 à 1983 inclusivement;
Répartition verticale de l'ozone à partir des observations Umkehr jusqu'en 1983 inclusivement.
Sondage de l'ozone de 1962 à 1983 inclusivement.
L'Ozone en surface jusqu'en 1983 inclusivement.

Toutes les moyennes relatives à l'ozone total sont calculées par ordinateur.

Les données relatives à la répartition verticale d'après les observations Umkehr effectuées avant le 1er janvier 1968 ont été évaluées à nouveau pour tenir compte des modifications des coeficients d'absorption de l'ozone qui sont entrées en vigueur à cette date.

Les bandes de données sont disponibles au Centre au prix coûtant. Pour de plus amples renseignements s'adresser au Centre mondial des données sur l'ozone.

TABLES DES MATIÈRES

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NOTES CONCERNING THE STATION CATALOGUE

Some stations have been operated by different agencies at different times with the result that the station has been listed at least twice. Some data submitted have been abbreviated; these abbreviations have been kept to a minimum. The following are abbreviations frequently used in this Catalogue, and the data Catalogue:

OBS	for	Observations
OBSTY	for	Observatory, Observatorium
MET	for	Meteorological, Météorologique, Meteorologisches
L	for	λ, Wavelength used
M	for	μ, Path length of radiation through ozone layer
Z	for	G.M.T.
CQNS	for	Corrections
VOL	for	Volume
NO	for	Number
03	for	Ozone (i.e., total 03, 03sonde)
INC	for	Included
ONL	for	Only
INST	for	Instrument

Observational and instrument type codes referenced in the catalogue are decoded as follows:

Observational Type Code

1. Total Ozone
2. Umkehr
3. Ozonesonde
4. Horizontal Distribution
5. Surface Ozone
6. Others (specified within program

Instrument Type Code

1. Brewer
2. Cauer-Teichert
3. Dobson
4. Dobson (Japan)
5. Ehmert
6. Fecker Telescope
7. Hoelper
8. Jodmeter
9. Leningrad Ozone Meter
10. Mast
11. Oxford
12. Paetzold
13. Regener
14. Universal Ozone-Meter
15. Vassy
16. Carbon Iodine
xx. Others (specified within program

NOTES RELATIVES AU CATALOGUE DES STATIONS

Certaines stations ayant été exploitées par différents organismes à différentes époques, elles figurent au moins deux fois sur la liste. Certaines des données soumises ont été abrégées mais on a réduit les abréviations au minimum. On trouvera ci-dessous les abréviations fréquemment utilisées dans le catalogue, et le Catalogue des données:

OBS	observations
OBSTY	observatoire
MET	météorologique, meteorological, meteorologisches
L	λ, longueur d'onde utilisée
M	μ, trajectoire de la radiation dans la couche d'ozone
Z	TMG
CQNS	corrections
VOL	volume
NO	numéro, nombre
03	ozone
INC	inclus
ONL	seulement
INST	instrument

Explication du code des types d'observations et d'instruments:

Code du type d'observations

1. Quantitité totale d'ozone
2. Umkehr
3. Sonde d'ozone
4. Répartition horizontal
5. Ozone en surface
6. Autre (précisé dans le programme)

Code du type d'instruments

1. Brewer
2. Cauer-Teichert
3. Dobson
4. Dobson (Japan)
5. Ehmert
6. Télescope Fecker
7. Hoelper
8. Jodmètre
9. Ozonemètre de Leningrad
10. Mast
11. Oxford
12. Paetzold
13. Regener
14. Ozonemètre universel
15. Vassy
16. Carbone iodé
xx. Autre (precisé dans le programme)

GLOBAL ATMOSPHERE SAMPLING DATA AVAILABLE

Atmospheric Trace constituents data measured under NASA's Global Atmospheric Sampling Program (GASP) are now available on magnetic tapes from EDS' National Climatic Centre. Measurements of ozone, water vapor, clouds, and trichlorofluoromethane are made by automated air sampling systems on board several commercial B-747 aircraft in routine airline service. The data are acquired in the upper troposphere and lower stratosphere to provide baseline information that NASA will use to assess the potential adverse effects of aircraft exhaust emissions on the natural atmosphere.

The magnetic tapes are available from NCC by arrangements with James D. Holdeman of NASA's Lewis Research Center in Cleveland, Ohio. Fourteen tapes are on file, covering 604 flights between March 1975 and October 1977. For additional information contact the NCC Computer Products Branch on (704)258-2850, ext. 203, or write to National Climatic Center, Federal Building, Asheville, NC 28801.

STRATOSPHERIC AEROSOL AND GAS EXPERIMENT (SAGE), FEB/79-NOV/81

Satellite radiometric solar radiation extinction data during spacecraft sunrise and sunset at 0.6 µm are combined wih spacecraft ephemeris and local atmospheric density profiles to yield vertical profiles of atmospheric ozone extinction. These data are a product of NASA/Langley Research Centre, Hampton, Virginia, and among other locations, are archived at the World Ozone Data Centre where copies of these data on magnetic tape, and further associated information are available at cost.

DONNÉES D'ECHANTILLONNAGE GLOBAL DE L'ATMOSPHÈRE

On peut maintenant se procurer des bandes magnétiques du National Climatic Center de l'EDS qui comprennent les mesures des composants atmosphériques à l'état de traces effectuées dans le Global Atmospheric Sampling Program (GASP) de la NASA. Les mesures de l'ozone, de la vapeur d'eau, des nuages et du trichlorofluorométhane sont effetuées par des systèmes automatisés d'échantillonnage de l'air placés à bord de plusieurs avions commerciaux B-747 en service. Les données sont relevées dans la haute troposphère et la basse stratosphère et elles fournissent des renseignements de base que la NASA doit utiliser pour évaluer les effets néfastes eventuels des gaz d'échappement des avions sur l'atmosphère naturelle.

On peut se procurer les bandes magnétiques auprès du NCC en communiquant avec M. James D. Holdeman du Centre de recherche Lewis de la NASA à Cleveland (Ohio). Il y a 14 bandes en mémoire qui comprennent les données de 604 vols effectués entre mars 1975 et octobre 1977. Pour plus de renseignements, communiquez avec la Computer Products Branch du NCC, au (704) 258-2850 poste 203, ou écrire à l'adresse suivante: National Climatic Center, Federal Building, Asheville, NC 28801.

EXPÉRIENCE SUR LES AÉROSOLS ET LES GAZ STRATOSPHÉRIQUES, FÉV/79-NOV/81

Pour obtenir les profile verticaux de l'absorption du rayonnement solaire par l'ozone atmosphérique, on combine les données radiométriques satellitaires sur l'extinction du rayonnement solaire obtenues dans la bande de 0,6 µm par le satellte à chaque lever et à chaque coucher de soleil d'une part, aux éphémérides du satellite et aux profils de la densité atmosphérique locale d'autre part. Ces données provenant du centre de recherches Langley, de la NASA, à Hampton (Virginie), sont archivées, entre autres, au Centre mondial des données sur l'ozone, où l'on peut se les procurer, à titre onéreux, sur bandes magnétiques en même temps que des renseignements connexes.

DOBSON TOTAL OZONE NETWORK PERFORMANCE: 1979 - 1982

The information presented here consists of two parts. The first part is a continuation of the material in the paper by Fleig et al in the last Catalogue (Index No. 17). In that paper, total ozone measurements from the TOMS (Nimbus 7) satellite were compared to measurements at each of the ground stations for the first year of the TOMS experiment, viz., November, 1978, through October, 1979, inclusive. In this issue, similar comparsion data are presented for years two, three and four of the TOMS operation, viz., November, 1979, Through October, 1983, inclusive. Readers should refer to the earlier paper for a description of the details of the comparison and, in particular, the terrain height adjustment table for stations where it exceeds 0.5 percent of the total ozone.

The second part of the network performance information consists of data obtained in a standard lamp calibration check which was organized and carried out by the World Dobson Spectrophotometer Central Laboratory (Boulder) with support from the WMO Global Ozone Research and Monitoring Project. In this check, a set of two standard lamps was shipped to each Dobson station within a region (seven regions altogether over the globe). Standard lamp readings were taken using each of the standard lamp with each Dobson. The results have been published in Geophysical Monitoring for Climate Change No. 11, Summary Report 1982 (Table 10, page 35), by the U.S. Department of Commerce, Boulder, Colorado, U.S.A.

Both types of performance check are summarized in the accompanying table. In this table, the first four columns of comparison data refer, respectively, to the first four years of the TOMS experiment. For brevity, the year indicated at the top of each column is the year in which most of the observations were made, i.e., 1978-1979 becomes 1979. The first number in each column is the (TOMS - Dobson) percentage bias for the station with the global network average bias subtracted. In effect, then, this bias is that

EFFICACITE DU RESEAU DOBSON DE MESURE DE LA QUANTITE TOTALE D'OZONE : 1979 - 1982

Les renseignements fournis sont divisés en deux parties. La première partie constitute la suite de l'article de Fleig et autres paru dans le dernier catalogue (Index N° 17). Dans ledit article, les mesures de la quantité totale d'ozone effectuées par le satellite TOMS (Nimbus 7) étaient comparées aux mesures effectuées à chaque station au sol, et ce, pour la première année de l'expérience TOMS, soit de novembre 1978 à octobre 1979 inclusivement. Le présent rapport fournit des données de comparaison analogues pour les années duex, trois et quatre de l'expérience TOMS, soit de novembre 1979 à octobre 1983 inclusivement. Le lecteur doit se reporter à l'article susmentionné pour la correction de l'altitude du terrain pour les stations où la correction est supérieure à 0,5% de la quantité totale d'ozone.

La deuxième partie des renseignements sur l'efficacité du réseau consiste en données obtenues lors de la vérification d'étalonnage par lampes standard organisé et exécuté par le World Dobson Spectrophotometer Central Laboratory (Boulder) avec l'aide du projet mondial de surveillance et de recherche concernant l'ozone (OMM). Dans le but de cette vérification d'étalonnage, un ensemble de deux lamps standard a été envoyé à chaque station Dobson de chaque mesure obtenue par chaque spectrophotomètre Dobson, pour chaque lampe standard. Les résultats ont été publiés dans le Geophysical Monitoring for Climate Change No. 11, Summary Report 1982 (tableau 10, page 35), par le Department of Commerce des Etats-Unis, à Boulder (Colorado), Etats-Unis.

Le tableau ci-joint résume les deux types de tests d'efficacité. Les quatre premières colonnes de données de comparaison correspondent respectivement aux quatre premières années de l'expérience TOMS. Par concision, l'année indiquée au-dessus de chaque colonne est l'année au cours de laquelle la plus grande partie des observations ont été effectuées, ainsi 1978-1979 devient 1979. Le premier chiffre de chaque colonne est l'erreur en pourcentage (TOMS-Dobson) pour la station, à laquelle est soustraite l'erreur

of this station from the global average Dobson network as seen through the TOMS experiment. In calculating the global average bias between TOMS and the Dobson network, station biases exceeding two standard deviations from the average have been excluded. The second number in each comparison data column is the standard deviation of the mean bias, the third number is the number of comparison observations. A row of asterisks indicates that no comparison observations were available. Only "00" code Dobson data were used in preparing this table.

The second last column in the tables gives the average percentage correction required to total observations at the station, as implied from the standard lamp calibration check. The final column gives the discrepancy between the TOMS comparison for 1982 and the standard lamp calibration check. Some of these discrepancies are large, although for 77 percent of the stations the discrepancy lies within $\pm$ 3 percent. The corrections implied by the standard lamp calibration check should not be applied to total ozone data from the station. It is applicable only if the instrument in question is properly aligned and has a correct wedge calibration. Therefore, a large standard lamp correction should be considered as a warning flag that the Dobson instrument requires a more complete calibration check.

The six lines at the bottom of the table give network average values and the sample standard deviations in the data in the six columns in the body of the table. As noted above, the TOMS-Dobson averages exclude outliers. It is known that there may be a small difference between TOMS year 1 data (1978-1979) and TOMS year 2 data (1979-1980). It is also known that there is a larger difference between TOMS year 3 data (1980-1981) and TOMS year 2 data (1979-1980). TOMS years 3 and 4 were evaluated on a uniform basis.

moyenne pour le réseau mondial. Cette erreur correspond donc à celle de la station, par rapport à l'erreur moyenne mondiale du réseau Dobson, déterminée au cours de l'expérience TOMS. Dans le calcul de l'erreur moyenne mondiale entre le TOMS et le réseau Dobson, les erreurs de station dépassant deux écarts types par rapport à la moyenne ont été exclues. Le second chiffre de chaque colonne de données de comparaison est l'écart type de l'erreur moyenne, le troisième est le nombre d'observations de comparaison. Une rangée d'astérisques indique que l'on ne disposait pas d'observations de comparaison. Seules les données Dobson du code "00" ont été utilisées pour dresser le tableau.

L'avant-dernière colonne du tableau donne la correction moyenne en pourcentage à apporter aux observations de la quantité totale d'ozone à la station, selon la vérification d'étalonnage par lampes standard. La dernière colonne donne la divergence entre la comparaison TOMS pour 1982 et l'étalonnage par lampes standard. Certaines de ces divergences sont importantes, mais, pour 77% des stations, elle est de $\pm$ 3%. Les corrections découlant de la comparaison d'étalonnage par lampes standard ne doivent pas être appliquées aux données sur la quantité totale d'ozone provenant des stations. On applique cette correction seulement si l'instrument en question est bien aligné et si son coin sensitométrique est bein étalonné. Ainsi une correction importante indique que l'instrument de Dobson doit subir une vérification d'étalonnage plus poussée.

Les six lignes au bas du tableau donnent les valeurs moyennes du réseau et les écarts types de la série des données des six colonnes du tableau. Comme indiqué ci-dessus, les moyennes TOMS-Dobson ne comprennent pas les valeurs extrêmes. Nous savons qu'il peut y avoir une petite différence entre les données TOMS de la première année (1978-1979) et celles de la deuxième année (1979-1980). Nous savons également qu'il y a une plus grande différence entre les données TOMS de la troisième année (1980-1981) et celles

The changes in the averages from year to year primarily reflect changes in the characterization of the TOMS diffuser plate degradation, which increases with time, and the goniometric calibration of the plate which was found to have been incorrect in the year 1 and year 2 evaluation. The numbers also include, of course, any drift that may be present in the "average" Dobson network.

de la deuxième année (1979-1980). Les données des années 3 et 4 ont été évaluées uniformément. Les changements de moyennes entre chaque année correspondent principalement aux changements des charactéristiques de la dégradation du support transparent du diffuseur du TOMS, dégradation qui augmente avec le temps, et à l'étalonnage goniométrique dudit support qui était incorrect au cours des évaluations de la première et de la deuxième année. Les chiffres comprennent évidemment aussi toute déviation que l'on a pu remarquer dans le réseau Dobson "moyen".

DOBSON TOTAL OZONE NETWORK PERFORMANCE FOR 1979-1982

STATION	LATITUDE	COMPARISON WITH TOMS SATELLITE 1979	1980	1981	1982	1982	
		MEAN(SDEV,NUM)	MEAN(SDEV,NUM)	MEAN(SDEV,NUM)	MEAN(SDEV,NUM)	STD LAMP CORRECTION	STD LAMP-TOMS DISCREPANCY
ARROWSMITH-SCOTT	-90.0	4.32(0.23, 50)	3.66(0.22, 54)	******(*****, 0)	2.02(0.32, 46)	-1.32	-3.34
SYOWA	-69.0	4.75(0.32, 69)	6.93(0.36, 39)	6.21(0.21, 87)	10.85(0.82, 32)	-3.37	-14.22
MACQUARIE ISLAND	-54.5	3.30(0.51, 41)	-0.76(1.24, 15)	-3.80(1.33, 12)	******(*****, 0)	0.29	******
INVERCARGILL	-46.4	1.78(0.33, 86)	0.50(0.21, 91)	2.34(0.29, 70)	1.05(0.26, 66)	-0.15	-1.20
HOBART	-42.9	7.03(0.84, 51)	4.69(0.55, 68)	4.84(0.37,115)	3.68(0.18,164)	8.80	5.12
ASPENDALE	-38.0	-0.45(0.16,156)	-0.41(0.21,166)	0.81(0.15,184)	0.94(0.18,150)	-0.15	-1.09
BUENOS AIRES	-34.6	1.29(0.36,114)	0.80(0.20,136)	2.18(0.22,175)	2.18(0.30, 90)	0.08	-2.10
PERTH	-31.9	0.21(0.12,209)	1.00(0.13,221)	0.65(0.13,246)	0.28(0.14,283)	8.95	8.67
BRISBANE	-27.5	0.84(0.23,120)	2.77(0.19,165)	7.73(0.25,160)	8.46(0.27,173)	4.11	-4.35
CACHOEIRA PAULISTA	-22.7	******(*****, 0)	******(*****, 0)	0.55(0.12,279)	1.13(0.17,266)	3.67	2.54
CAIRNS	-16.9	-1.17(0.36,151)	-0.77(0.22,201)	-0.72(0.23,210)	-0.28(0.24,233)	-6.60	-6.32
ST. HELENA	-15.9	0.37(0.22, 83)	1.20(0.27, 90)	-2.64(0.74, 37)	0.58(0.58, 66)	******	******
TUITUILA ISLAND	-14.3	******(*****, 0)	-0.14(0.15,160)	0.07(0.12,175)	0.31(0.13,212)	-0.81	-1.12
HUANCAYO	-12.1	-3.53(0.11,236)	-4.16(0.15,280)	-5.02(0.09,323)	-5.01(0.13,313)	4.84	9.85
NATAL	-5.4	******(*****, 0)	******(*****, 0)	-1.36(0.09,249)	-1.09(0.10,341)	-0.73	0.36
MAHE SEYCHELLES IS	-4.7	-3.18(0.12,168)	-1.80(0.11,187)	-1.87(0.14,221)	-1.91(0.23,192)	******	******
SINGAPORE	1.3	-2.11(0.14,192)	-1.55(0.23, 62)	-0.29(0.10,309)	2.57(0.14,323)	******	******
KOBAIKANAL	10.2	-1.94(0.22, 36)	-0.65(0.26, 29)	0.09(0.21, 60)	-1.03(0.13,178)	-2.57	-1.54
BANGKOK	13.7	******(*****, 0)	-3.82(0.13,256)	-1.99(0.16,288)	-1.70(0.15,257)	-10.79	-9.09
MANILA	14.6	-0.73(0.25,144)	1.40(0.18,184)	4.42(0.31,151)	1.07(0.44, 25)	-2.32	-3.39
POONA	18.5	2.24(0.12,155)	0.22(0.15,144)	-1.64(0.11,194)	-0.89(0.11,266)	-0.44	0.45
MEXICO CITY	19.3	-4.18(0.17,152)	-4.39(0.20,161)	-3.77(0.19,126)	-4.52(0.21,150)	-1.32	3.20
MAUNA LOA OBS	19.5	1.01(0.14,163)	1.71(0.13,214)	2.83(0.16,229)	2.01(0.18,170)	1.25	-0.76
MOUNT ABU	24.6	0.90(0.14,157)	1.27(0.13,168)	-1.92(0.19,219)	-1.92(0.13,142)	-2.27	-0.35
KUNMING	25.0	******(*****, 0)	0.11(0.15,182)	-0.32(0.12,251)	-0.60(0.16,234)	2.05	2.65
UBARAGI	25.4	0.69(0.28, 53)	-0.63(0.12, 66)	-0.48(0.15, 81)	0.87(0.21, 94)	1.62	0.75
NAHA/KAGANIZU	26.2	0.60(0.18, 95)	0.35(0.16,132)	0.89(0.16,133)	1.29(0.17,124)	3.52	2.23
NEW DELHI	28.6	0.75(0.12,175)	1.12(0.16,158)	1.16(0.15,124)	2.08(0.20,104)	0.44	-1.64
CAIRO	30.1	-0.99(0.16,134)	-2.29(0.15,135)	-1.55(0.16,171)	-0.94(0.17,151)	******	******
QUETTA	30.2	0.14(0.27,252)	-1.87(0.24,265)	-0.93(0.26,274)	-0.34(0.13,297)	-1.91	-1.57
TALLAHASSEE	30.4	-1.67(0.28,102)	******(*****, 0)	******(*****, 0)	-0.28(0.14,121)	-0.88	-0.60
KAGOSHIMA	31.6	3.88(0.31, 74)	2.19(0.30, 74)	1.56(0.27, 84)	0.96(0.17,115)	-4.55	-5.51
WHITE SANDS	32.4	-1.61(0.16,217)	-1.85(0.17,245)	-1.14(0.15,210)	-0.35(0.62, 42)	0.62	0.97
CASABLANCA	33.6	******(*****, 0)	12.08(1.98, 53)	7.20(1.25,103)	8.78(0.92, 95)	******	******
SRINAGAR	34.1	-1.77(0.28, 96)	-2.49(0.23, 92)	-1.82(0.16,130)	-1.47(0.19,150)	-1.76	-0.29
TATENO	36.1	0.59(0.20,130)	0.75(0.19,132)	0.52(0.17,157)	-0.81(0.16,181)	-3.08	-2.27
HASHVILLE	35.3	-2.86(0.26,123)	-3.46(0.21,185)	-3.92(0.18,185)	-1.11(0.17,228)	-1.18	-0.07
EL ARENOSILLO	37.1	******(*****, 0)	******(*****, 0)	-3.33(0.20,113)	-2.98(0.20,156)	-0.66	2.32
WALLOPS ISLAND	37.9	1.00(0.18,195)	-0.40(0.11,247)	0.17(0.16,252)	0.04(0.12,224)	0.96	0.92
LISBON	38.8	2.46(0.99, 84)	0.68(0.32,161)	0.68(0.29,189)	0.87(0.23,169)	0.07	-0.80

DOBSON TOTAL OZONE NETWORK PERFORMANCE FOR 1979-1982

STATION	LATITUDE	COMPARISON WITH TOMS SATELLITE 1979	1980	1981	1982	1982	
		MEAN(SDEV,NUM)	MEAN(SDEV,NUM)	MEAN(SDEV,NUM)	MEAN(SDEV,NUM)	STD LAMP CORRECTION	STD LAMP-TOMS DISCREPANCY
CAGLIARI-ELMAS	39.1	2.59(0.19,242)	3.11(0.26,244)	******(*****, 0)	-1.19(0.14,234)	1.25	2.44
SHIANGHER	39.8	0.36(0.24,133)	0.13(0.20,248)	0.31(0.15,248)	0.04(0.14,265)	-0.15	-0.19
BOULDER	40.0	-1.02(0.22,136)	-0.75(0.25,179)	-1.77(0.13,177)	-0.65(0.15,186)	-0.30	0.35
BRINDISI	40.4	******(*****, 0)	******(*****, 0)	******(*****, 0)	-5.81(1.14, 28)	-3.30	2.51
VIGNA DI VALLE	42.1	-0.64(0.17,246)	-0.24(0.17,262)	-1.08(0.35,143)	-1.19(0.15,321)	-0.44	0.75
MONT-LOUIS	42.5	-2.30(0.21,193)	-0.53(0.56, 39)	******(*****, 0)	******(*****, 0)	******	******
SAPPORO	43.1	2.20(0.21,108)	2.91(0.23,115)	3.50(0.24,143)	0.45(0.24,164)	0.44	-0.01
TORONTO	43.8	-0.85(0.30, 89)	-0.03(0.23,102)	-0.17(0.16,106)	0.08(0.15,170)	0.15	0.07
SESTOLA	44.2	-0.92(0.22,160)	-1.63(0.40,108)	******(*****, 0)	-1.89(0.26,159)	0.08	1.97
BISCARROSSE	44.4	0.49(0.12,241)	2.11(0.12,298)	2.16(0.13,313)	1.98(0.13,300)	2.42	0.44
BUCHAREST	44.5	******(*****, 0)	-2.94(0.29, 91)	-3.28(0.29,141)	-3.29(0.24,121)	-3.30	-0.01
BISMARCK	46.8	0.57(0.29,124)	0.04(0.32,117)	0.51(0.20,145)	0.63(0.26,137)	-0.88	-1.51
AROSA	46.8	2.25(0.18,221)	3.30(0.16,245)	3.32(0.14,256)	3.19(0.13,264)	0.88	-2.31
CARIBOU	46.9	0.31(0.21,145)	0.09(0.25,158)	-0.66(0.24,156)	-0.65(0.22,173)	1.25	1.90
BUDAPEST-LORINC	47.4	******(*****, 0)	2.47(0.30,129)	0.87(0.20,152)	0.97(0.20,138)	3.52	2.55
HOHENPEISSENBERG	47.8	2.51(0.14,209)	2.68(0.18,223)	2.57(0.16,234)	2.32(0.18,239)	6.54	4.22
HAGNY-LES-HAMEAUX	48.7	******(*****, 0)	-0.75(0.35, 45)	2.72(1.00, 45)	2.67(0.30, 59)	-1.98	-4.65
HRADEC KRALOVE	50.2	1.25(0.30,124)	-0.65(0.16,161)	-0.52(0.18,161)	-1.16(0.14,182)	3.30	4.46
UCCLE	50.8	-2.35(0.30, 84)	-0.28(0.45, 54)	-1.58(0.19, 89)	-1.38(0.21,129)	-1.25	0.13
BRACKNELL	51.4	-1.20(0.41, 52)	-0.62(0.48, 62)	-1.09(0.40, 41)	2.07(0.38, 66)	0.59	-1.48
BELSK	51.8	-2.24(0.26, 92)	-0.52(0.43, 63)	-1.59(0.23, 78)	-0.97(0.29, 91)	-1.32	-0.35
POTSDAM	52.4	-0.01(0.21,113)	1.27(0.30,109)	3.58(0.35, 77)	0.54(0.24,119)	-0.59	-1.13
GOOSE	53.3	-1.66(0.78, 22)	-0.38(0.54, 23)	-0.71(0.37, 41)	-0.29(0.38, 33)	0.00	0.29
EDMONTON STONY PL	53.6	-1.17(0.17, 71)	-0.53(0.23, 64)	-0.72(0.23, 60)	-0.10(0.24, 75)	-0.08	0.02
CHURCHILL	58.8	0.04(0.38, 39)	-1.39(0.29, 66)	-1.10(0.34, 67)	-1.86(0.31, 65)	-1.62	0.24
OSLO	59.9	-2.81(0.33, 20)	-3.25(0.00, 2)	******(*****, 0)	******(*****, 0)	0.96	******
LENINGRAD	60.0	-1.31(0.45, 17)	******(*****, 0)	-2.25(1.36, 14)	******(*****, 0)	-0.29	******
LERWICK	60.1	-1.31(0.38, 48)	0.93(0.36, 71)	1.03(0.44, 36)	1.34(0.54, 51)	-2.13	-3.47
REYKJAVIK	64.1	-0.07(0.26, 88)	1.09(0.23, 81)	1.37(0.28, 54)	1.82(0.34, 52)	-0.44	-2.26
BARROW	71.2	1.51(0.34, 52)	0.15(0.81, 9)	2.26(0.35, 56)	******(*****, 0)	-1.62	******
RESOLUTE	74.7	1.21(0.41, 46)	1.37(0.46, 42)	1.81(0.37, 33)	-0.35(0.35, 39)	0.74	1.09

DEVIATION OF TOMS FROM AVERAGE DOBSON 1979	-6.51 +/- 1.78	NO. OF STATIONS 57
DEVIATION OF TOMS FROM AVERAGE DOBSON 1980	-6.27 +/- 1.91	NO. OF STATIONS 63
DEVIATION OF TOMS FROM AVERAGE DOBSON 1981	-5.42 +/- 2.05	NO. OF STATIONS 60
DEVIATION OF TOMS FROM AVERAGE DOBSON 1982	-5.34 +/- 1.72	NO. OF STATIONS 62
AVERAGE STANDARD LAMP CORRECTION	-0.05 +/- 3.00	NO. OF STATIONS 65
AVERAGE (STD LAMP-TOMS) DISCREPANCY	-0.26 +/- 3.55	NO. OF STATIONS 61

LEGEND FOR TOMS-DOBSON COMPARISON PLOTS AND DATA TABLES

Proceedings from left to right across the data table headings

CODE - This is the observation code for wavelength and kind of total ozone observation as defined on page 16 of Guide Book No. 2 of OZONE DATA FOR THE WORLD.

NUM - This is the number of observations in the comparison.

TOMS - Average total ozone in m atm-cm for TOMS.

STD - Standard deviation of the TOMS sample in m atm-cm.

DOBSON - Average total ozone in m atm-cm from the Dobson station.

STD - Standard deviation of the Dobson data sample in m atm-cm.

% DIFF - Per cent difference (TOMS - Dobson) corrected for terrain height difference as described in the text.

STD - Standard deviation of the per cent difference in the same units

Notes: 1. The names of the months on the abscissa scale are centered under the first day of each month.

2. A tabulation of the individual comparison data for each station may be obtained from the World Ozone Data Centre on request. These data may be of assistance at individual stations in checking and correcting the empirical charts used in the evaluation of zenith sky observations.

3. Not all data were available when these following diagrams were prepared.

LÉGENDE DES GRAPHIQUES DE COMPARAISON ET DES TABLEAUX DE DONNÉES TOMS-DOBSON

En-têtes des tableaux de données, de gauche à droite

CODE - C'est le code d'observation de la longueur d'onde et du type d'observation de la quantité totale d'ozone, selon la définition figurant à la page 16 du GUIDE N° 2 des DONNÉES MONDIALES SUR L'OZONE.

NUM - C'est le nombre d'observations dans la comparaison.

TOMS - Quantité totale moyenne d'ozone en m atm-cm d'après TOMS.

STD - Écart type de l'échantillon de données TOMS en m atm-cm.

DOBSON - Quantité totale moyenne d'ozone en m atm-cm d'après la station Dobson.

STD - Écart type de l'échantillon de données Dobson en m atm-cm.

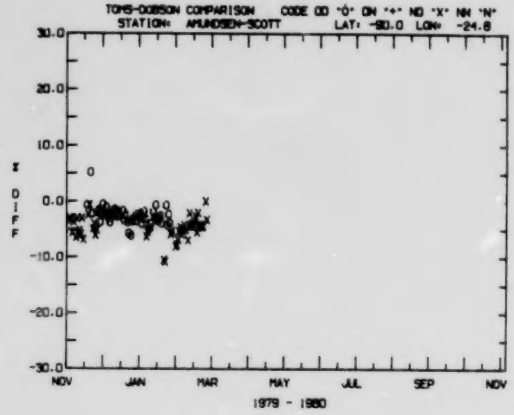
% DIFF - Différence en pourcentage (TOMS - DOBSON) corrigée pour tenir compte des différences d'altitude du terrain, selon les indications du texte.

STD - Écart type de la différence en pourcentage dans les mêmes unités.

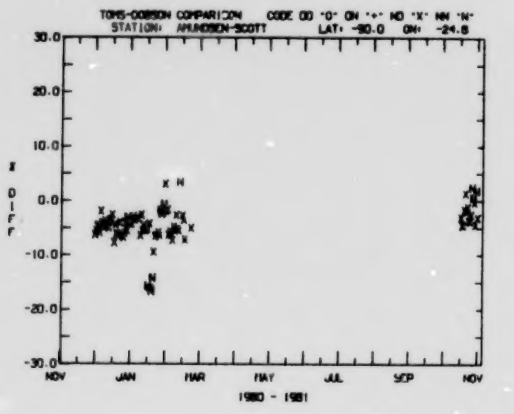
Notes: 1. Les noms des mois en abscisse sont imprimés sous le premir jour de chaque mois.

2. On peut obtenir, sous forme de tableau, les données de comparaison particulières de chaque station, en s'adressant au Centre mondial des données sur l'ozone. Ces données peuvent servir aux stations particulières à la vérification et à la correction des cartes empiriques utilisées pour l'évaluation des observations du ciel au zénith.

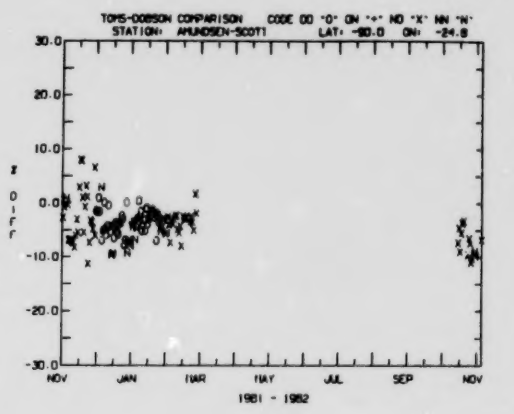
3. Lors de la préparation des figures qui suivent, toutes les données n'étaient pas disponibles,



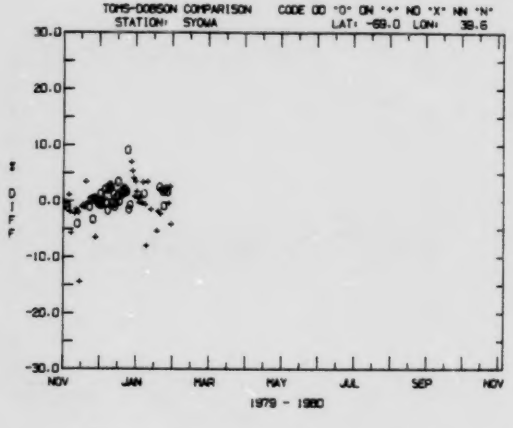
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	101	324.0	37.5	336.2	36.9	-3.66	2.17
OO	54	339.4	32.3	348.4	31.4	-2.61	1.62
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	47	306.4	35.5	322.3	38.1	-4.88	2.09
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



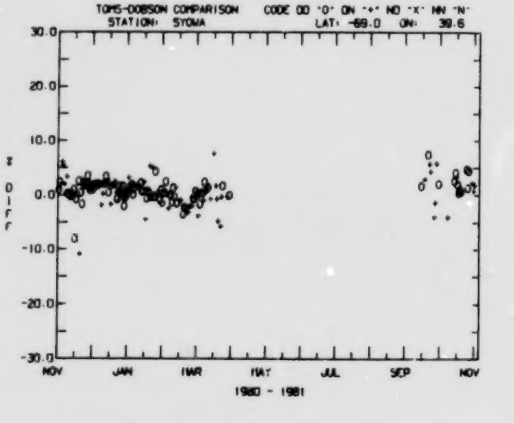
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	87	291.4	36.5	306.1	42.4	-4.46	3.43
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	71	294.0	37.3	308.1	41.8	-4.35	2.04
NN	16	280.1	31.0	297.5	45.1	-4.97	6.91



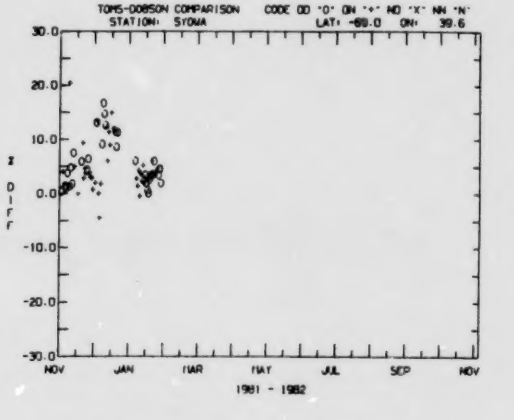
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	128	293.0	41.6	305.1	41.6	-3.91	3.42
OO	46	316.6	27.2	328.0	29.4	-3.32	2.13
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	64	276.1	42.6	287.2	40.8	-3.86	3.97
NN	18	292.9	41.3	310.6	42.6	-5.80	3.58



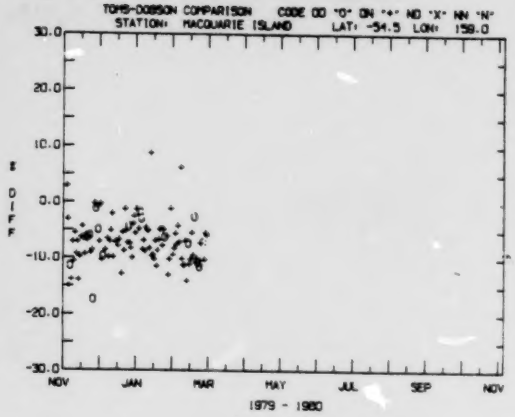
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	78	354.3	27.2	357.0	29.3	0.07	3.19
OO	39	349.5	18.9	350.0	20.7	0.86	2.16
ON	39	359.0	33.1	364.0	34.7	-0.51	3.80
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



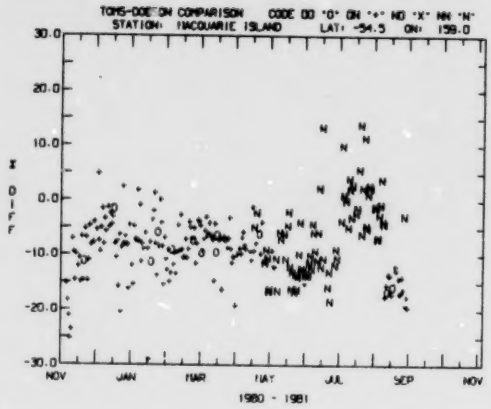
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	155	328.5	36.1	328.4	34.4	0.67	2.51
OO	87	330.6	34.7	330.1	33.1	0.79	1.94
ON	68	325.7	38.0	326.2	36.2	0.52	3.09
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



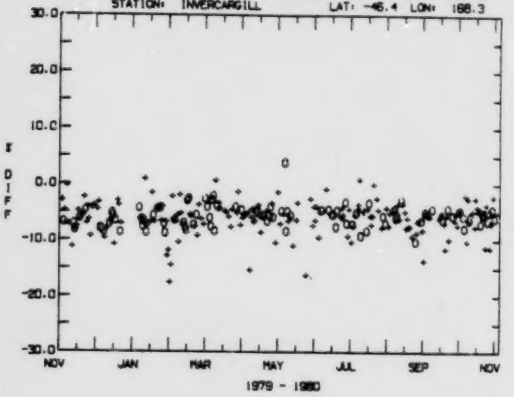
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	67	337.5	37.0	322.5	34.9	5.41	4.79
OO	32	328.7	35.3	313.2	27.6	5.51	4.51
ON	35	345.6	37.1	331.0	39.0	5.31	5.11
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



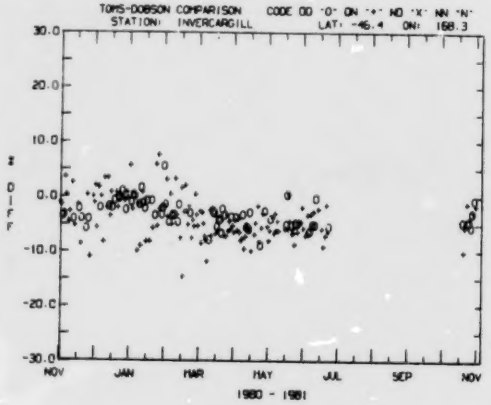
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	109	331.1	34.1	357.0	39.7	-7.09	3.98
OO	15	338.3	41.2	365.9	48.9	-7.03	4.46
ON	94	329.8	32.9	355.6	38.1	-7.10	3.93
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



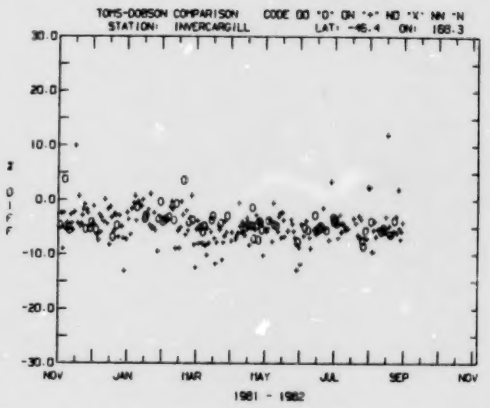
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	254	315.1	36.4	345.0	46.0	-8.30	6.13
OO	12	311.4	31.8	344.0	41.5	-9.22	4.22
ON	165	318.0	38.6	352.3	51.2	-9.31	5.29
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	77	309.3	31.6	329.5	28.3	-5.99	7.39



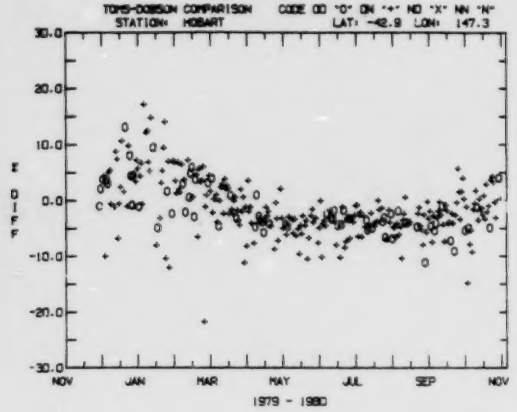
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	284	311.0	35.0	331.4	36.7	-5.98	2.68
OO	91	304.2	37.4	323.5	40.3	-5.77	1.97
ON	172	314.2	33.1	335.2	33.9	-6.12	3.00
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	1	368.0	0.0	388.0	0.0	-4.76	0.0



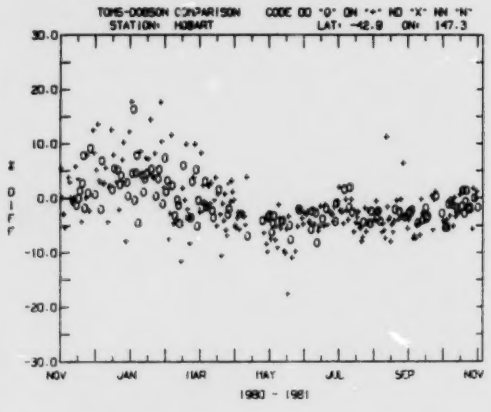
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	207	291.8	30.9	302.9	30.7	-3.66	3.42
OO	70	283.5	29.8	302.9	30.8	-3.08	2.38
ON	136	291.0	31.6	302.9	30.6	-3.94	3.83
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	1	281.0	0.0	288.0	0.0	-5.70	0.00



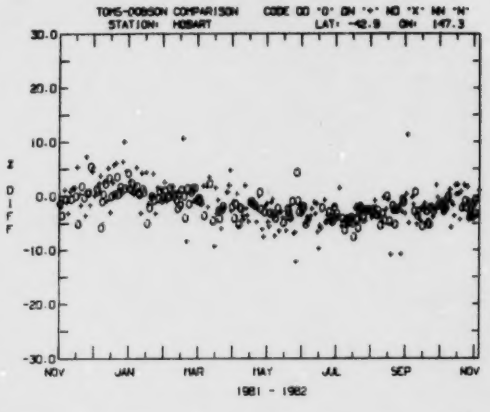
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	258	302.0	30.2	316.4	29.2	-4.57	3.02
OO	66	297.3	28.0	310.6	28.5	-4.29	2.07
ON	192	303.6	30.8	318.4	29.2	-4.67	3.29
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



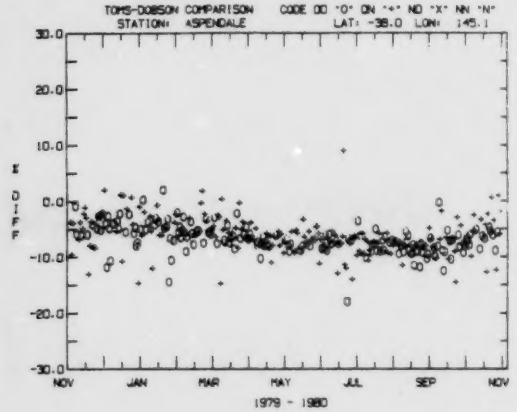
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	304	307.6	32.7	313.8	36.8	-1.53	5.03
OO	68	303.3	30.7	309.6	35.3	-1.58	4.46
ON	236	308.9	33.2	315.1	37.3	-1.51	5.18
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



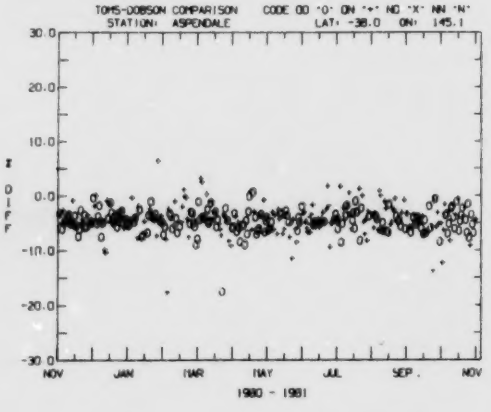
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	329	310.7	40.7	314.9	45.1	-1.04	5.01
OO	115	307.1	41.7	309.6	45.4	-0.56	3.93
ON	214	312.6	40.1	317.7	44.8	-1.29	5.50
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



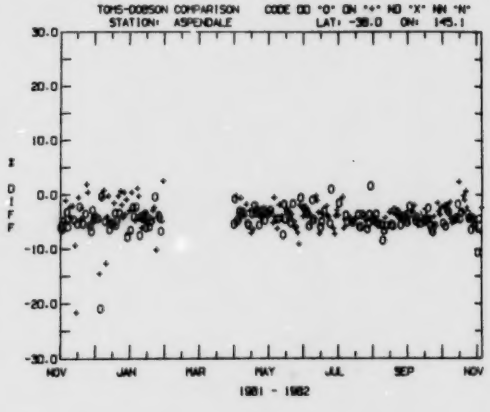
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	346	310.2	34.1	315.1	34.9	-1.52	3.20
OO	164	307.9	33.1	313.3	34.9	-1.66	2.34
ON	182	312.2	35.0	316.7	34.8	-1.39	3.82
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



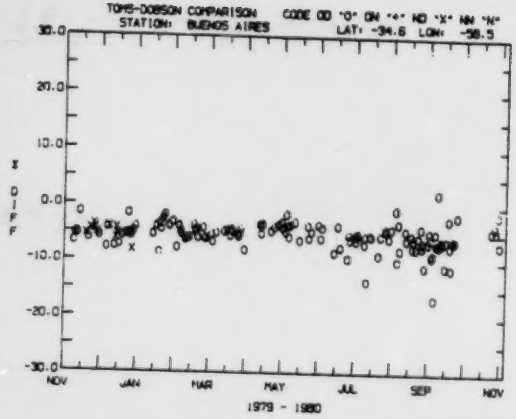
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	334	295.4	27.5	316.9	28.9	-6.45	3.13
OO	166	294.1	25.7	316.3	28.5	-6.68	2.63
ON	168	296.6	29.2	317.5	31.3	-6.22	3.55
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



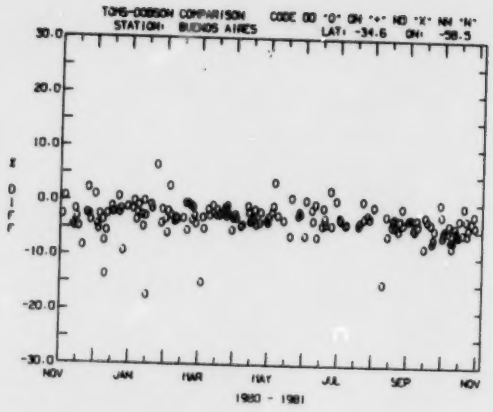
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	349	302.4	35.2	316.2	36.7	-4.35	2.64
OO	184	296.8	33.6	311.2	34.7	-4.61	2.04
ON	165	308.6	36.1	321.8	38.2	-4.06	3.16
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



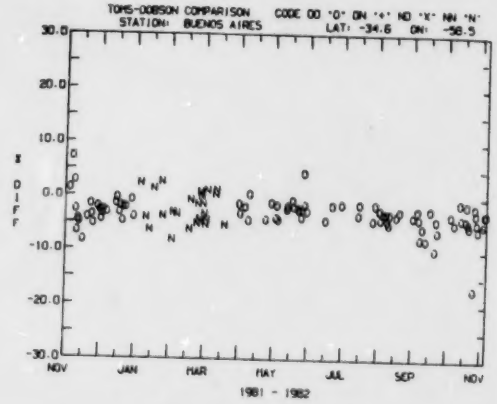
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	281	306.6	28.5	319.8	29.2	-4.08	2.86
OO	150	303.2	27.5	317.3	28.2	-4.40	2.18
ON	131	310.5	29.3	322.8	30.3	-3.73	3.09
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



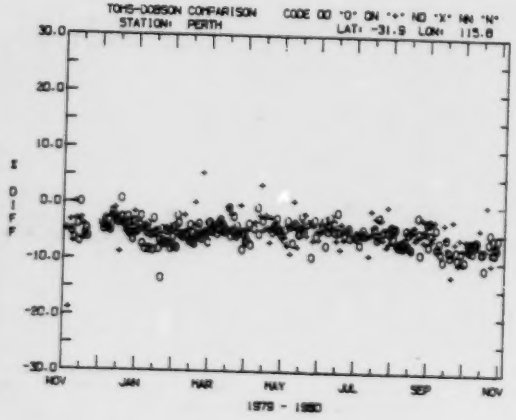
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	148	284.6	23.6	301.3	25.8	-5.44	2.27
00	138	284.5	23.8	301.3	26.1	-5.47	2.32
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	10	286.4	21.6	302.0	22.4	-5.12	1.28
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



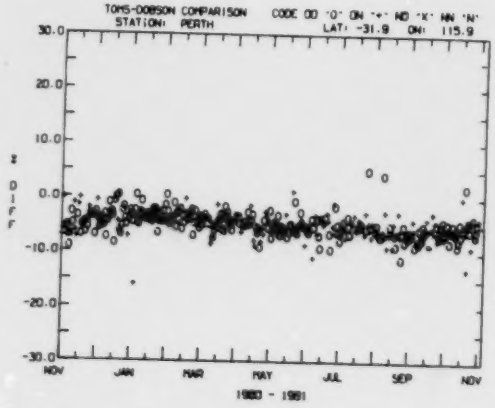
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	175	285.9	23.5	289.7	26.7	-3.24	2.88
00	175	285.9	23.5	289.7	26.7	-3.24	2.88
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



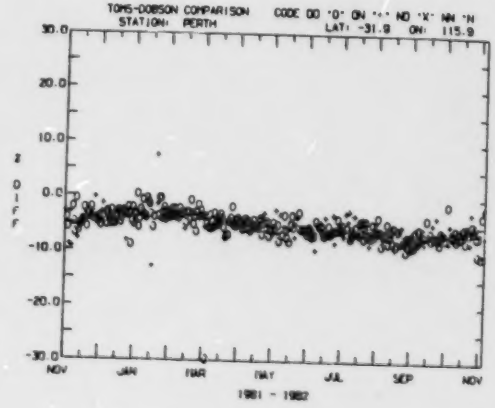
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	114	284.7	19.0	287.7	21.2	-2.99	2.84
00	90	286.8	20.4	289.3	22.5	-3.16	2.78
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	24	277.0	9.1	283.7	10.6	-2.34	3.03



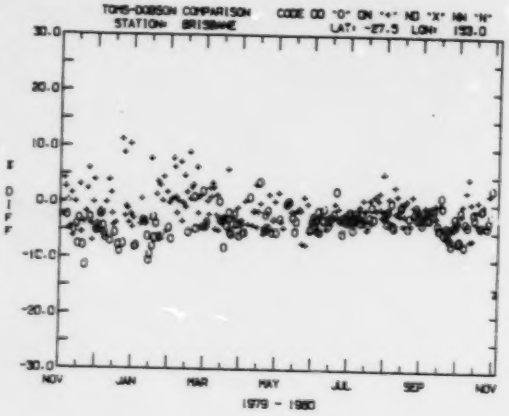
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	326	278.5	21.9	283.9	24.9	-5.10	2.42
00	221	278.5	20.7	283.2	22.9	-5.27	1.98
ON	105	282.6	23.8	287.4	28.4	-4.75	3.12
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



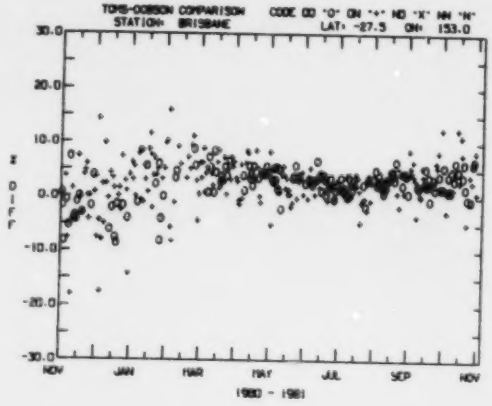
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	356	287.1	23.1	302.3	25.6	-4.93	2.28
00	246	285.1	21.8	298.6	25.2	-4.77	2.09
ON	110	291.7	25.4	308.3	26.9	-5.30	2.61
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



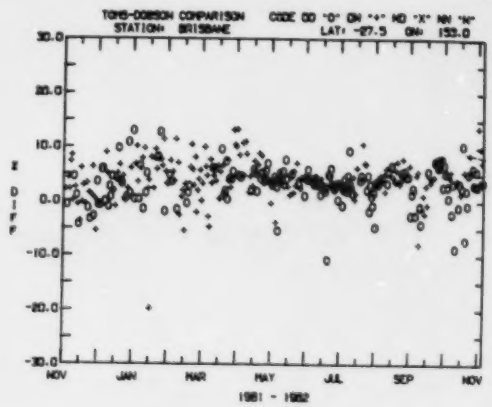
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	352	287.6	22.4	303.5	25.5	-5.15	2.44
00	283	285.0	21.3	300.4	24.2	-5.06	2.35
ON	79	297.1	23.9	314.5	27.1	-5.46	2.72
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



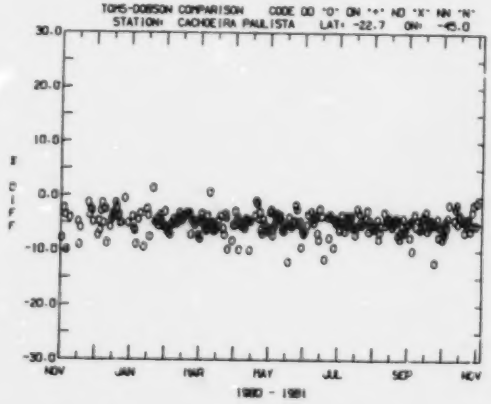
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	328	270.5	18.0	277.0	21.1	-2.03	3.39
OO	165	269.7	16.5	280.3	18.5	-3.50	2.46
ON	163	271.3	19.5	273.6	22.1	-0.54	3.36
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



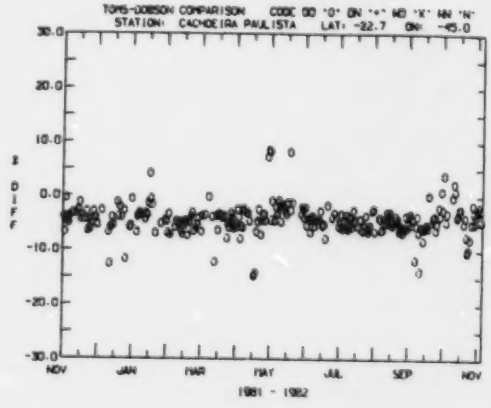
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	344	279.4	18.7	273.1	22.3	2.49	4.19
OO	160	282.1	17.6	276.0	19.6	2.31	3.15
ON	184	276.9	19.3	270.5	24.1	2.65	4.92
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



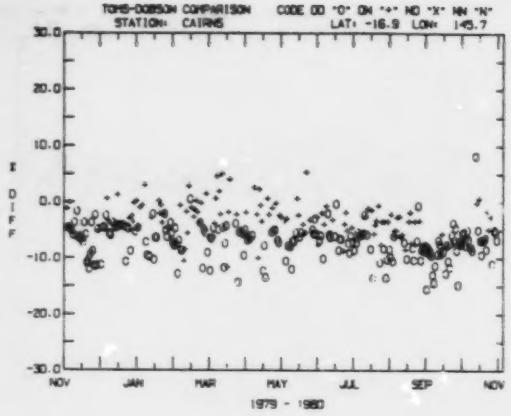
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	349	277.0	17.3	267.7	21.0	3.68	3.82
OO	173	278.0	16.0	270.0	18.5	3.12	3.47
ON	176	276.1	18.5	265.4	22.1	4.24	4.08
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



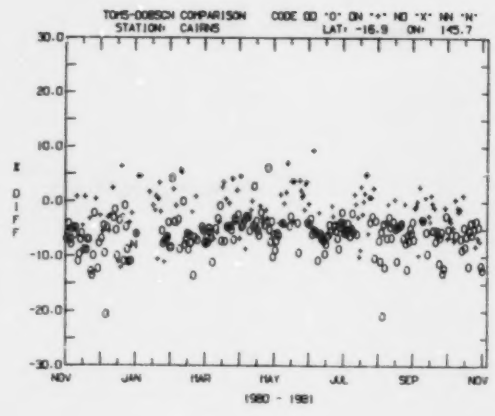
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	279	261.1	13.3	275.3	14.0	-4.87	1.94
OO	279	261.1	13.3	275.3	14.0	-4.87	1.94
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



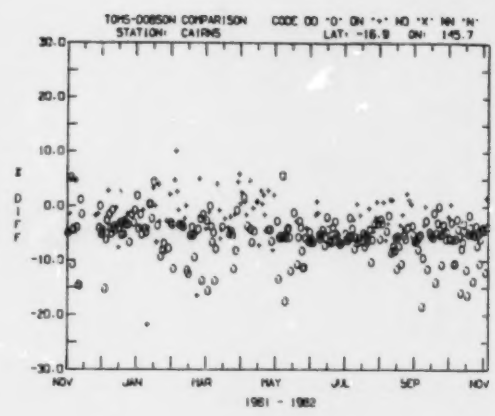
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	268	260.6	10.4	272.9	10.7	-4.21	2.83
OO	268	260.6	10.4	272.9	10.7	-4.21	2.83
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



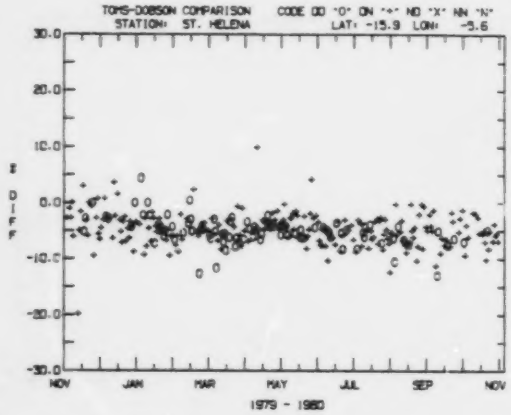
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	316	247.3	14.6	262.4	17.8	-5.47	3.72
OO	201	248.0	14.6	266.6	16.7	-7.04	3.06
ON	115	244.3	14.1	251.7	14.6	-2.72	3.15
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



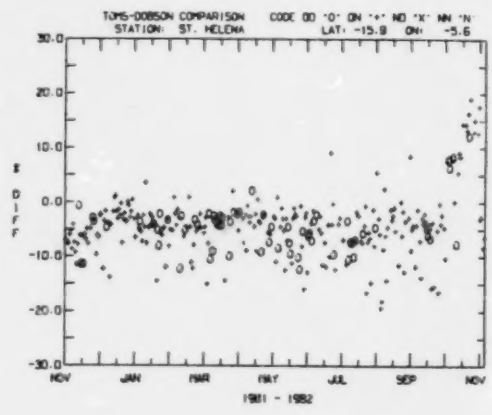
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	338	255.0	10.8	267.1	16.5	-4.36	4.26
OO	210	254.5	10.3	271.5	14.9	-6.14	3.26
ON	127	255.8	12.1	259.8	18.6	-1.38	4.05
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	1	254.0	0.0	276.0	0.0	-7.97	0.00



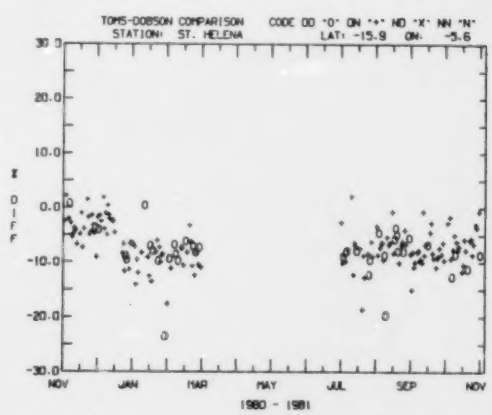
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	324	253.8	10.2	265.9	15.8	-4.37	4.38
OO	233	254.0	10.3	269.5	14.5	-5.62	3.71
ON	91	253.1	10.0	258.6	15.3	-1.19	4.36
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



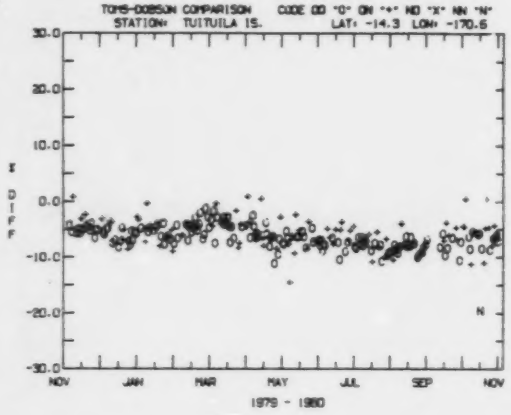
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	296	257.7	14.6	270.0	16.0	-4.85	2.97
OO	90	254.1	12.2	266.8	13.2	-5.07	2.54
ON	206	259.2	15.4	271.3	17.0	-4.75	3.14
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



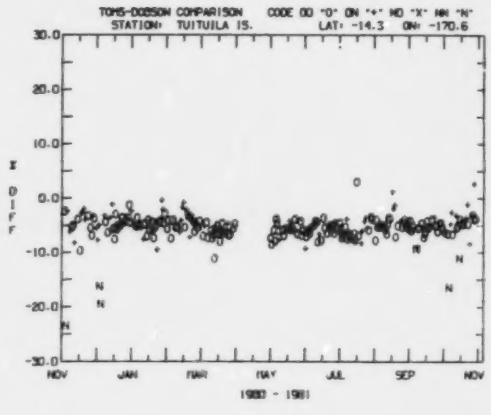
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	304	265.1	10.4	276.8	17.6	-4.29	5.76
OO	86	263.0	10.0	275.6	14.3	-4.76	4.65
ON	238	265.7	10.5	277.2	18.4	-4.16	6.03
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



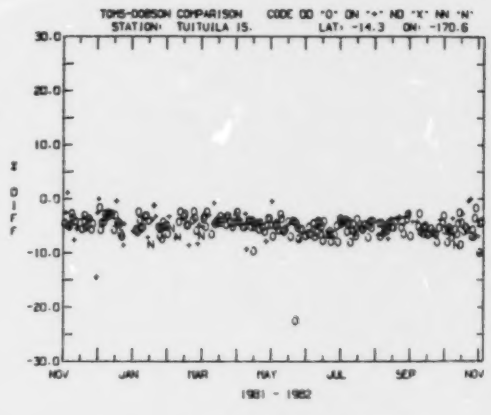
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	181	269.8	11.1	289.7	14.8	-7.08	3.60
OO	37	265.3	8.9	288.1	16.9	-8.06	4.36
ON	144	271.0	11.3	290.1	14.3	-6.83	3.74
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



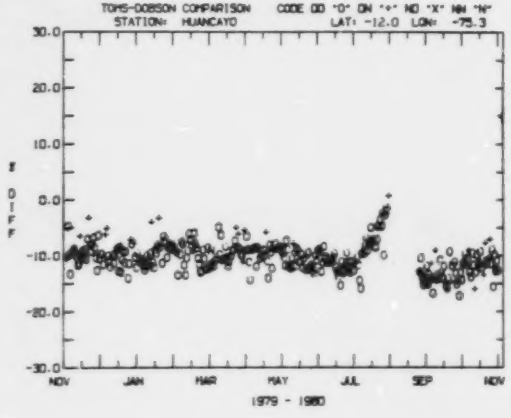
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	250	240.4	10.7	256.1	11.7	-6.20	2.46
OO	180	241.4	10.5	257.8	10.5	-6.41	1.91
ON	69	238.3	10.9	252.6	11.8	-5.66	2.85
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	1	248.0	0.0	308.0	0.0	-19.55	0.0



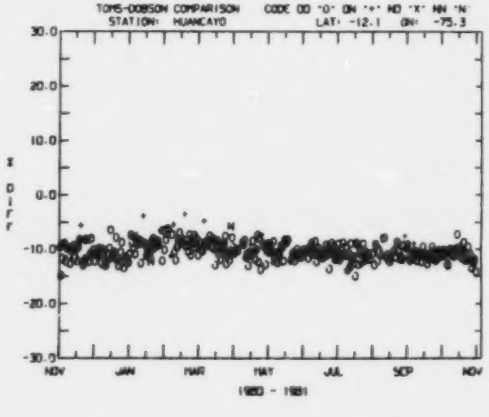
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	247	246.1	7.7	252.1	9.9	-5.36	2.60
OO	175	246.3	7.3	252.1	7.7	-5.35	1.52
ON	66	247.4	8.5	258.8	9.2	-4.42	2.44
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	6	249.2	10.7	296.8	10.7	-16.01	5.24



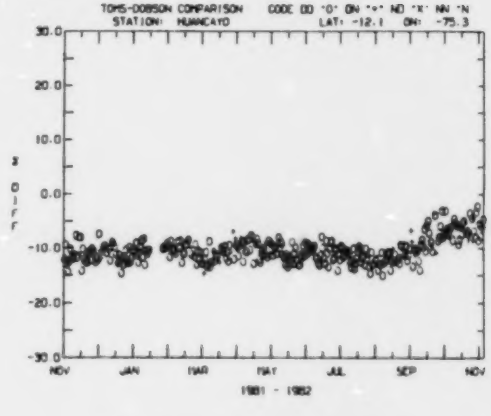
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	275	244.9	8.8	257.6	9.0	-4.99	2.10
OO	212	244.6	8.5	257.4	8.7	-5.03	1.85
ON	58	246.0	9.8	257.9	10.5	-4.66	2.79
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	5	244.2	4.2	263.0	2.9	-7.22	1.27



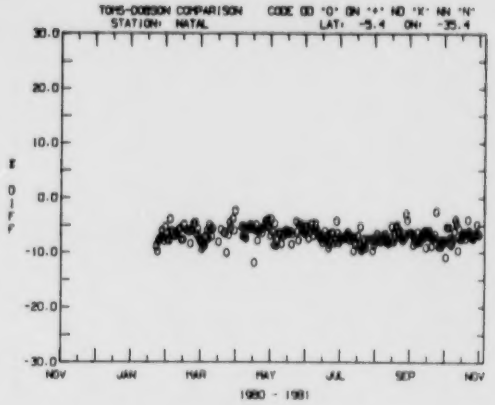
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	321	239.6	7.6	263.9	9.5	-10.18	2.70
OO	294	239.1	7.3	264.0	9.3	-10.43	2.48
ON	25	243.7	8.6	262.7	11.0	-8.17	3.48
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	2	240.0	0.0	260.5	0.0	-8.88	0.0



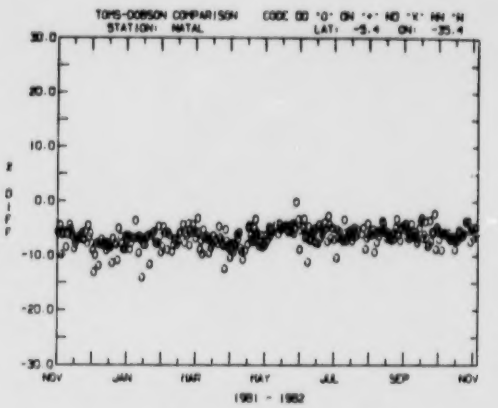
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	356	245.2	6.9	269.8	8.2	-10.26	1.75
OO	323	245.2	6.9	270.3	8.0	-10.44	1.57
ON	25	245.7	7.7	265.0	9.2	-8.43	2.51
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	8	246.7	5.2	267.4	4.4	-8.87	2.00



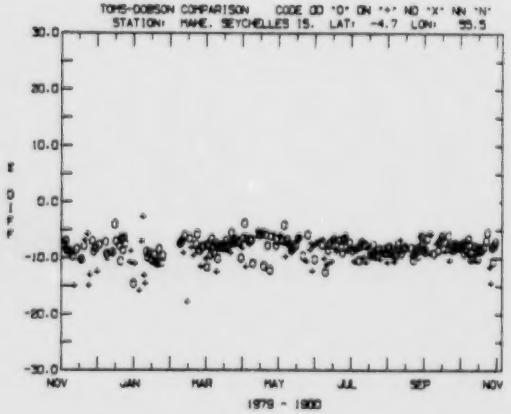
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	350	244.9	8.1	269.6	6.9	-10.31	2.30
OO	313	244.5	8.1	269.3	6.8	-10.35	2.31
ON	36	247.3	7.1	271.5	7.6	-10.05	2.25
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	1	261.0	0.0	281.0	0.0	-8.28	0.00



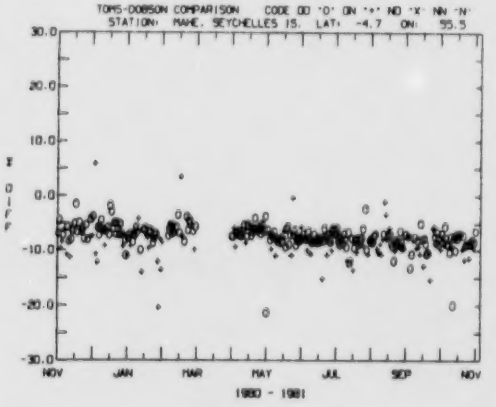
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	249	255.1	8.1	273.6	9.3	-6.78	1.45
OO	249	255.1	8.1	273.6	9.3	-6.78	1.45
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



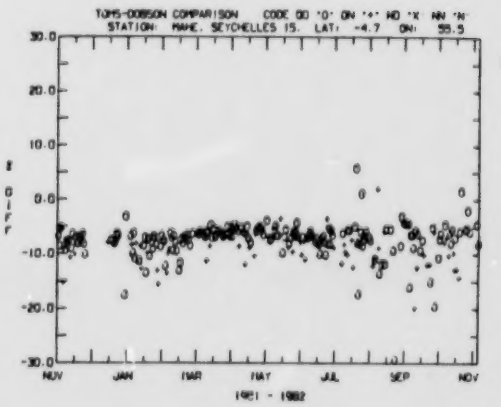
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	341	255.4	11.3	272.9	11.4	-6.43	1.78
OO	341	255.4	11.3	272.9	11.4	-6.43	1.78
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



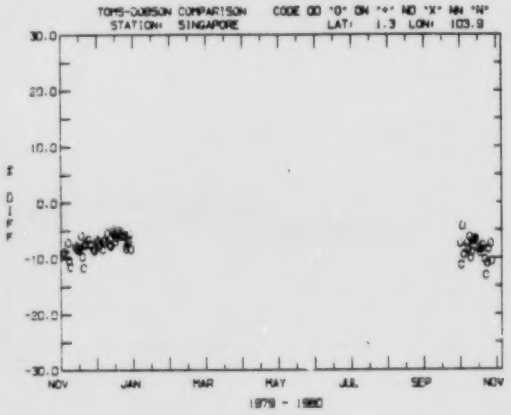
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	278	251.7	7.6	275.0	8.8	-8.46	1.99
OO	187	252.4	8.0	274.6	9.0	-8.07	1.52
ON	91	250.2	6.6	275.8	8.6	-9.26	2.56
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



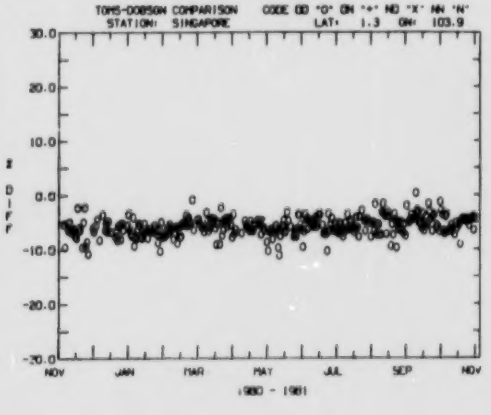
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	318	251.2	5.8	272.4	8.8	-7.74	2.63
OO	221	251.4	4.9	271.3	7.5	-7.29	2.07
ON	97	250.7	6.9	275.1	10.9	-8.77	3.40
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



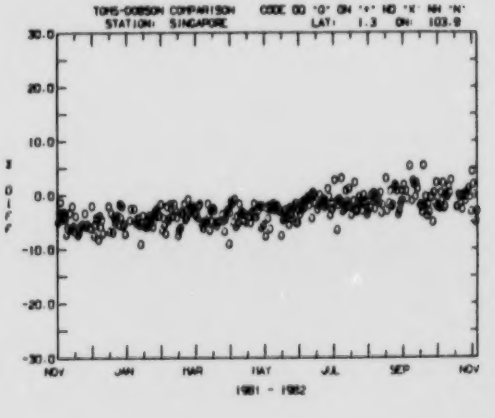
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	256	248.0	9.3	269.4	13.8	-7.83	3.35
OO	192	248.4	9.3	268.1	13.7	-7.25	3.20
ON	64	246.9	9.4	273.3	13.6	-9.56	3.21
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



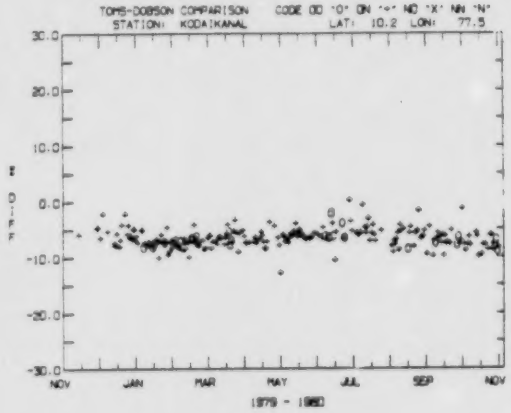
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	62	242.7	9.4	263.4	10.5	-7.82	1.80
OO	62	242.7	9.4	263.4	10.5	-7.82	1.80
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



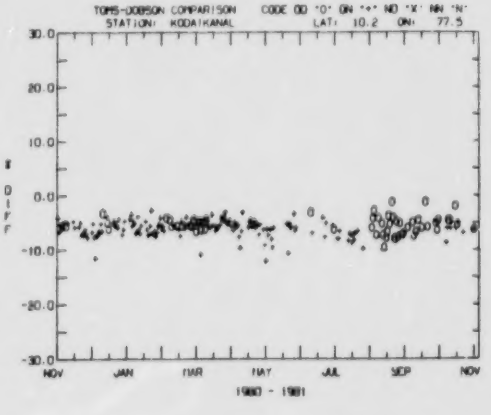
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	309	244.6	6.6	258.4	6.4	-5.71	1.75
OO	309	244.6	6.6	258.4	6.4	-5.71	1.75
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



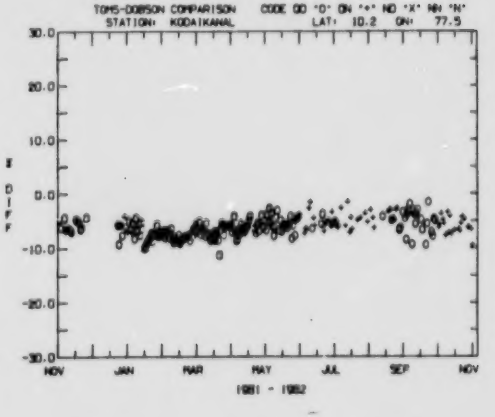
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	323	247.1	16.4	253.9	12.7	-2.77	2.43
OO	323	247.1	16.4	253.9	12.7	-2.77	2.43
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



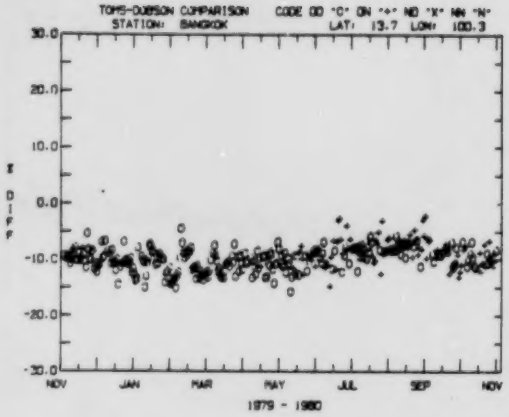
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	235	248.8	15.2	263.4	15.4	-6.60	1.88
OO	29	243.5	15.0	257.7	15.1	-6.82	1.36
ON	206	250.5	15.0	264.1	15.3	-6.56	1.72
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



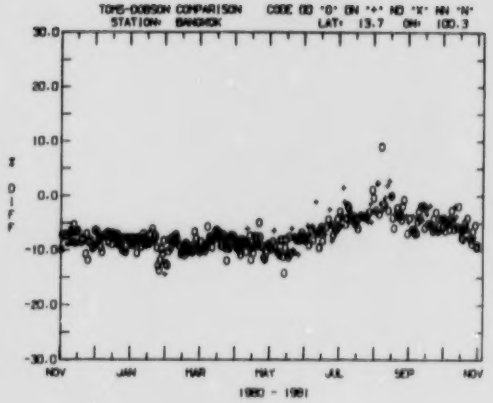
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	219	251.0	10.6	263.4	11.5	-5.88	1.59
OO	60	254.2	10.8	265.3	12.1	-5.33	1.60
ON	159	249.8	10.4	262.8	11.2	-6.09	1.54
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



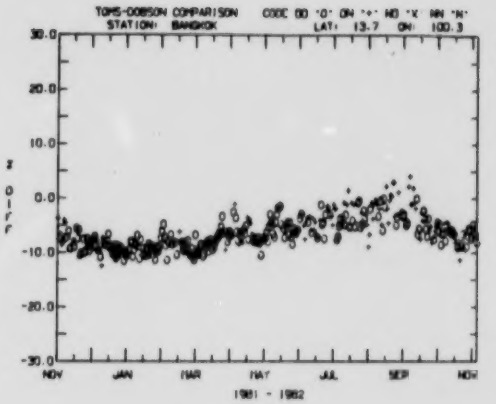
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	245	251.3	14.4	264.1	12.6	-6.05	1.73
OO	178	248.4	14.0	261.9	12.4	-6.37	1.67
ON	66	256.6	12.0	270.4	11.1	-5.15	1.58
NO	1	237.0	0.0	253.0	0.0	-7.48	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



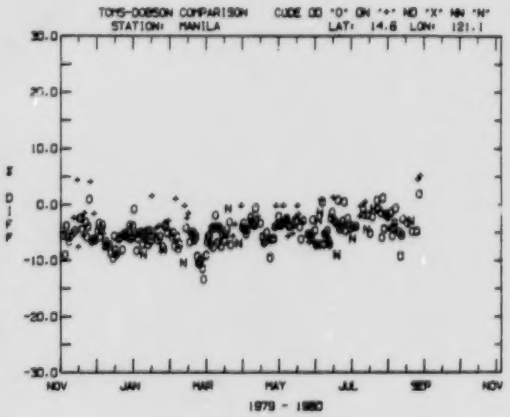
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	334	247.2	14.9	274.3	13.8	-8.71	2.27
OO	256	243.4	14.7	271.3	14.1	-10.08	2.00
ON	78	259.5	7.3	284.2	6.0	-8.50	2.64
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



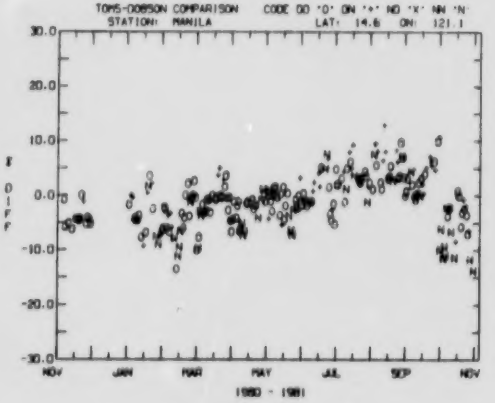
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	355	251.7	12.6	270.3	11.0	-6.90	3.03
OO	288	250.0	12.8	269.9	11.6	-7.41	2.70
ON	67	259.1	8.7	272.1	8.0	-4.72	3.38
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



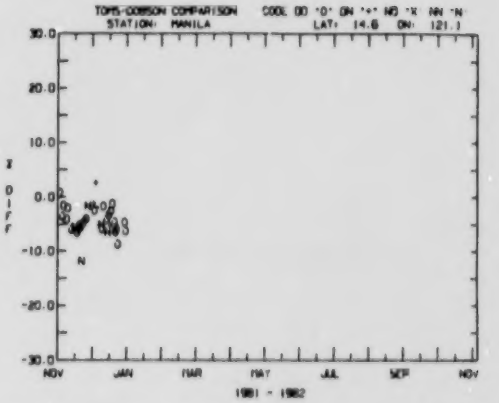
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	363	252.1	15.2	268.5	10.2	-6.19	3.07
OO	257	248.8	15.2	267.5	11.1	-7.04	2.47
ON	106	260.0	11.9	271.1	7.2	-4.12	3.39
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



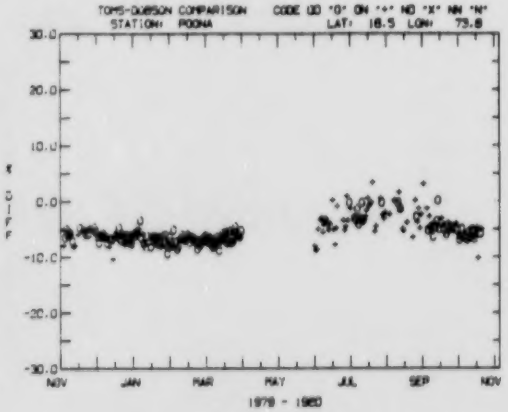
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	244	241.8	19.6	253.1	17.5	-4.45	2.86
OO	184	241.3	19.2	253.7	17.0	-4.87	2.46
ON	46	243.2	20.6	248.6	18.5	-2.50	3.42
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	14	244.0	22.3	257.8	19.4	-5.35	3.26



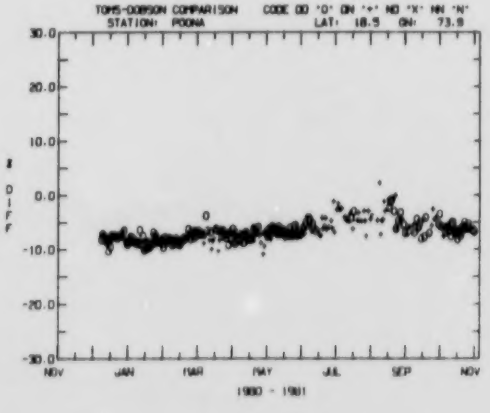
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	250	252.2	15.7	254.7	14.0	-0.91	4.81
OO	151	253.0	15.1	255.6	13.1	-1.00	3.73
ON	55	253.1	16.1	248.9	13.0	1.73	5.25
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	44	248.8	17.1	258.9	16.4	-3.88	5.71



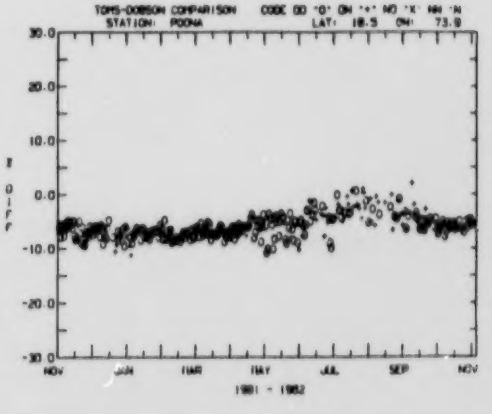
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	35	233.5	8.0	243.8	6.9	-4.21	2.88
OO	25	233.4	8.6	243.8	7.1	-4.27	2.13
ON	5	236.0	6.3	241.0	4.8	-2.05	3.02
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	5	231.6	8.5	246.8	7.3	-6.10	3.67



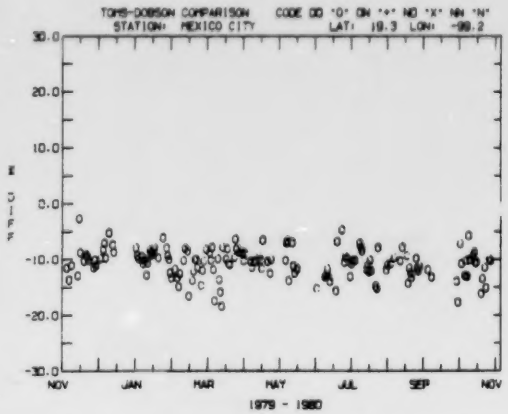
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	244	248.7	17.6	261.9	14.0	-5.35	2.37
OO	144	241.4	14.8	256.2	12.2	-6.05	1.77
ON	100	259.1	15.8	270.1	12.4	-4.33	2.75
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



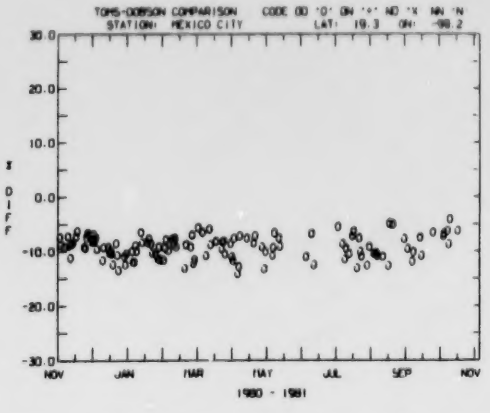
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	295	260.5	13.9	277.5	12.4	-6.60	1.95
OO	194	256.1	14.7	276.3	13.5	-7.06	1.54
ON	101	265.1	10.8	279.8	9.6	-5.71	2.33
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



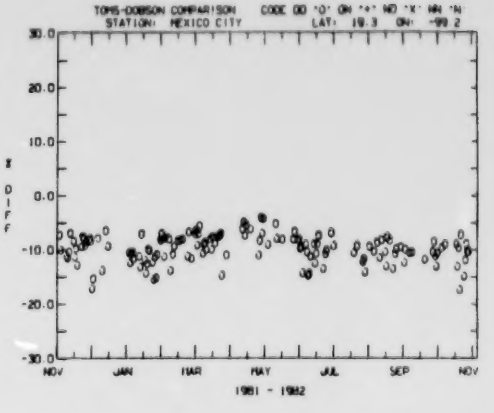
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	335	259.6	16.5	274.3	14.7	-5.83	2.21
OO	268	257.9	15.9	273.7	14.8	-6.23	1.78
ON	68	266.0	17.1	276.5	14.2	-4.26	2.91
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



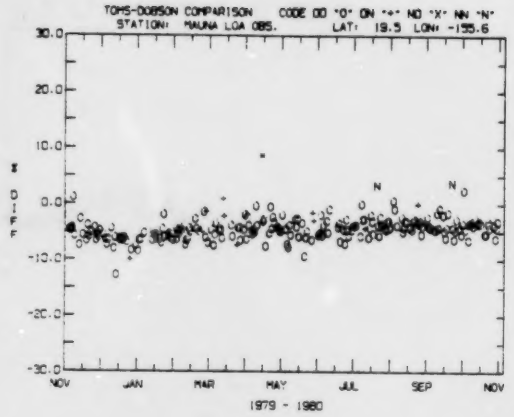
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	161	247.9	19.5	275.5	23.5	-10.66	2.58
OO	161	247.9	19.5	275.5	23.5	-10.66	2.58
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



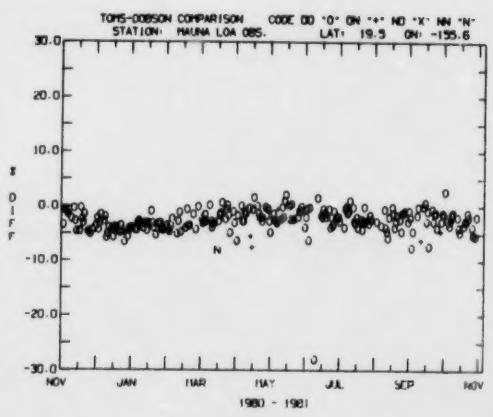
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	126	257.9	13.4	282.8	15.5	-9.19	2.10
OO	126	257.9	13.4	282.8	15.5	-9.19	2.10
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



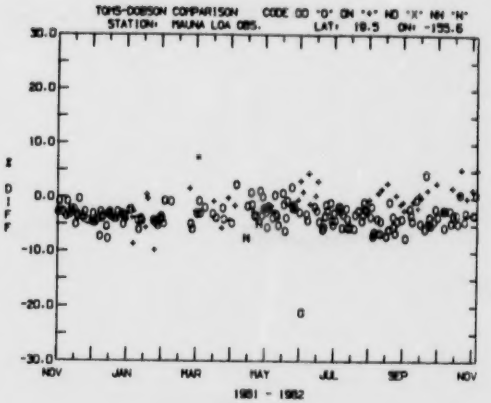
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	150	258.8	17.0	285.7	17.6	-9.86	2.56
OO	150	258.8	17.0	285.7	17.6	-9.86	2.56
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



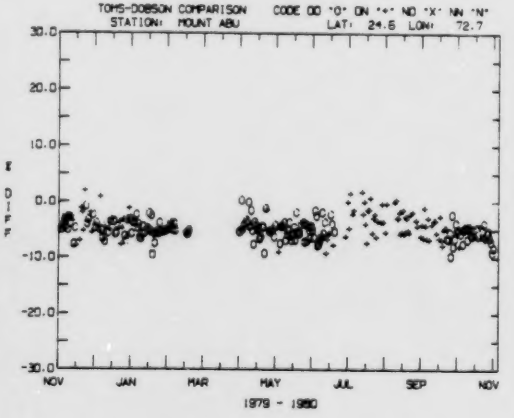
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	226	255.9	17.2	260.2	15.9	-4.38	2.28
OO	214	255.5	17.1	260.2	15.6	-4.56	1.88
ON	10	264.7	18.5	263.6	21.0	-2.13	5.00
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	2	263.5	0.0	248.0	0.0	3.54	0.0



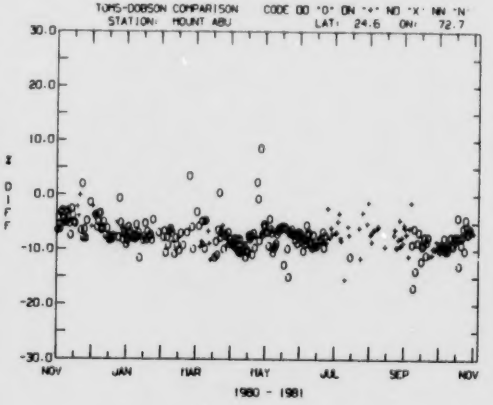
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	235	265.6	17.3	265.5	17.2	-2.66	2.48
OO	229	265.3	17.4	265.0	17.0	-2.59	2.43
ON	5	277.8	12.7	284.2	15.9	-4.91	2.65
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	1	263.0	0.0	278.0	0.0	-8.12	0.00



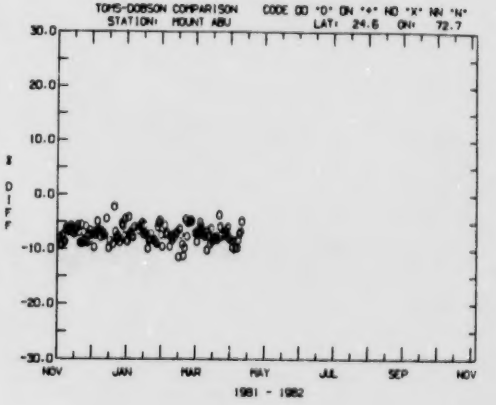
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	218	266.5	18.0	266.7	18.6	-2.75	2.84
OO	170	266.6	18.5	268.3	18.2	-3.33	2.35
ON	46	265.2	16.3	259.6	18.1	-0.46	3.30
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	2	262.5	0.0	292.5	0.0	-6.14	0.00



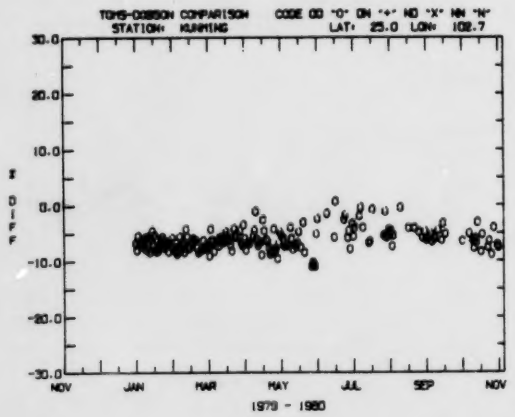
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	261	259.0	14.5	269.4	14.9	-4.64	2.09
OO	168	257.8	15.5	269.0	16.2	-5.00	1.69
ON	93	261.4	12.2	270.0	12.5	-3.98	2.54
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



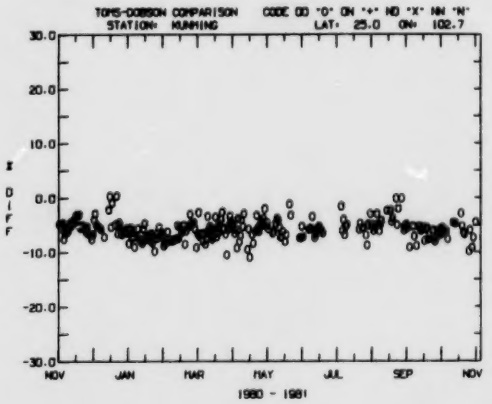
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	296	266.2	14.4	284.2	16.9	-7.30	2.79
OO	219	265.9	14.9	284.0	17.5	-7.34	2.82
ON	77	267.1	12.6	284.7	15.1	-7.17	2.72
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



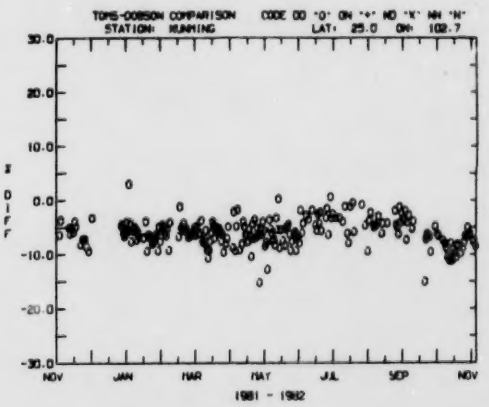
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	147	264.1	15.1	281.7	16.1	-7.29	1.53
OO	142	263.6	14.9	281.1	15.8	-7.26	1.52
ON	5	277.6	14.2	298.8	16.1	-8.11	1.57
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



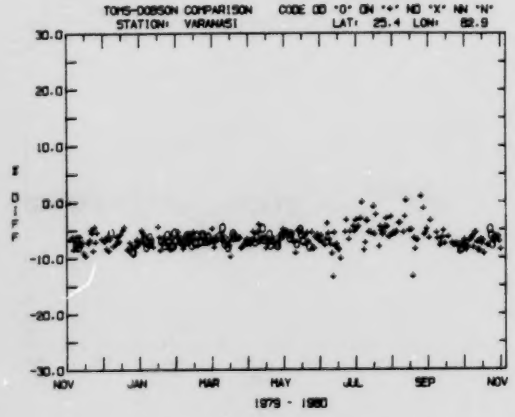
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	182	249.9	17.2	265.1	16.7	-6.16	1.97
OO	182	249.9	17.2	265.1	16.7	-6.16	1.97
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



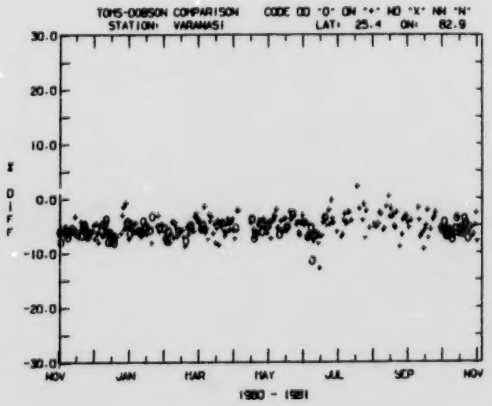
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	251	258.8	17.9	274.4	18.3	-5.74	1.86
OO	251	258.8	17.9	274.4	18.3	-5.74	1.86
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



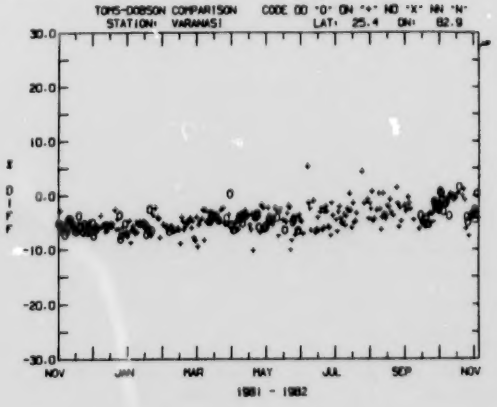
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	234	262.8	18.3	278.3	18.5	-5.84	2.50
OO	234	262.8	18.3	278.3	18.5	-5.84	2.50
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



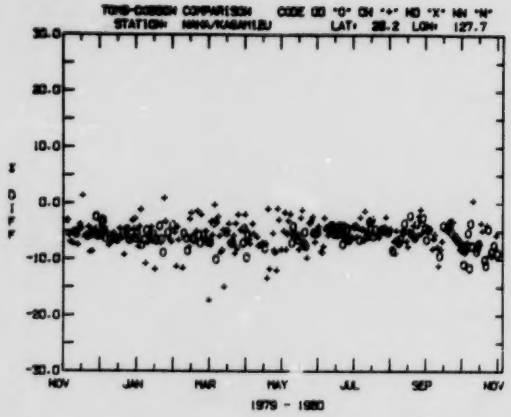
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	296	259.9	13.2	278.8	13.6	-6.64	1.68
OO	66	256.7	14.4	276.2	14.8	-6.90	0.97
ON	230	260.8	12.7	279.6	13.2	-6.57	1.83
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



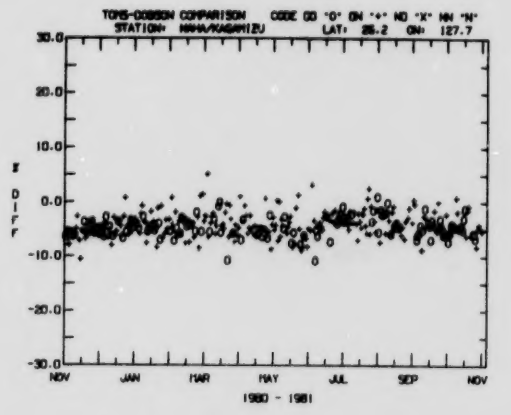
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	304	267.4	16.2	282.0	16.5	-5.25	1.76
OO	81	260.8	16.3	277.0	17.1	-5.90	1.32
ON	223	268.8	15.5	283.9	15.8	-5.01	1.84
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



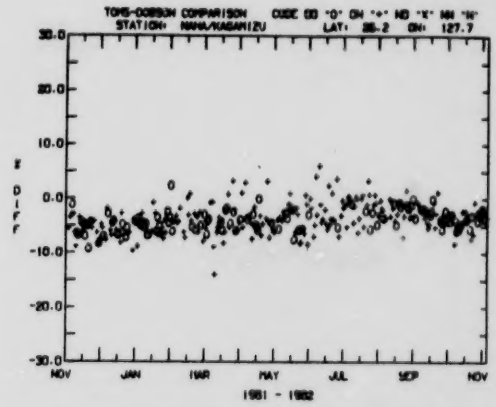
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	325	271.6	15.5	283.9	16.1	-4.35	2.24
OO	94	268.4	13.9	280.9	15.0	-4.47	2.03
ON	231	272.9	16.0	285.1	16.4	-4.30	2.33
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



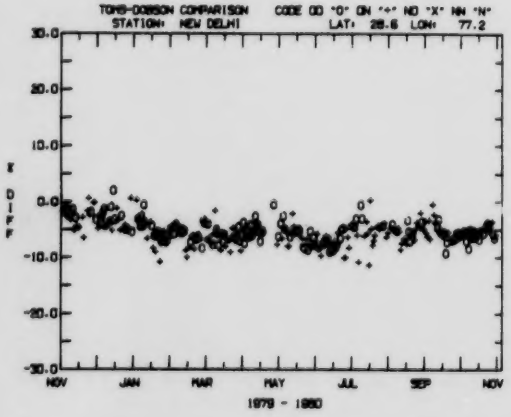
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	320	261.7	18.2	277.8	19.3	-5.80	2.41
OO	132	259.5	18.1	275.8	19.0	-5.92	1.77
ON	188	263.2	18.2	278.2	19.5	-5.71	2.77
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



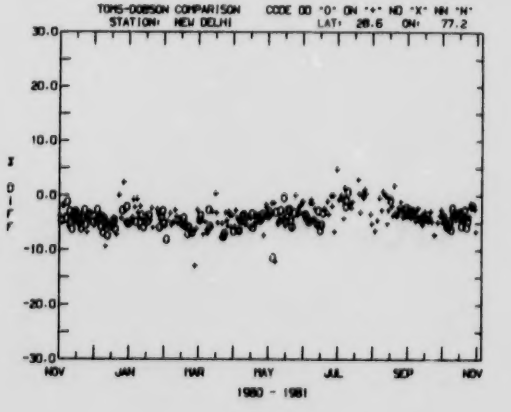
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	345	268.5	19.1	280.3	20.0	-4.21	2.27
OO	133	266.1	19.3	278.8	21.0	-4.53	1.88
ON	212	270.0	18.9	281.3	19.2	-4.01	2.47
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



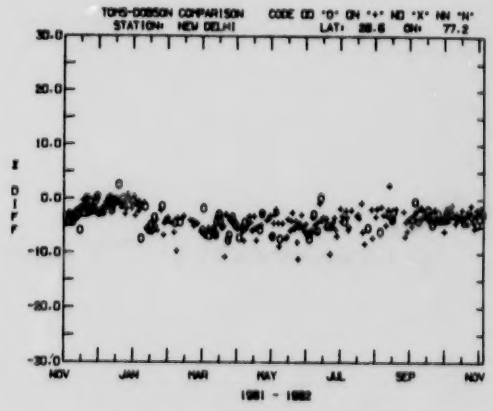
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	325	270.8	22.3	281.2	21.7	-3.72	2.62
OO	124	266.5	22.6	277.6	22.4	-4.05	1.90
ON	201	273.4	21.8	283.4	21.0	-3.52	2.97
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



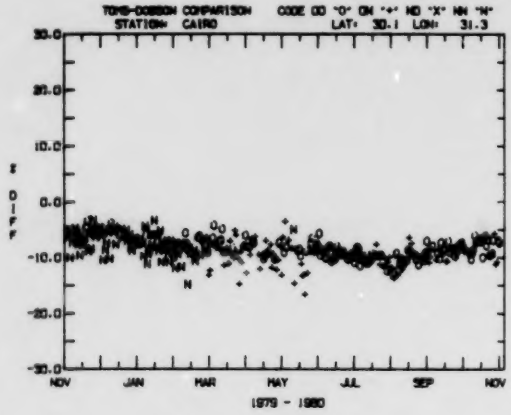
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	311	268.4	14.2	284.3	16.5	-5.40	2.14
OO	158	268.4	13.8	284.7	16.1	-5.15	1.97
ON	153	267.3	14.8	284.0	17.0	-5.88	2.28
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



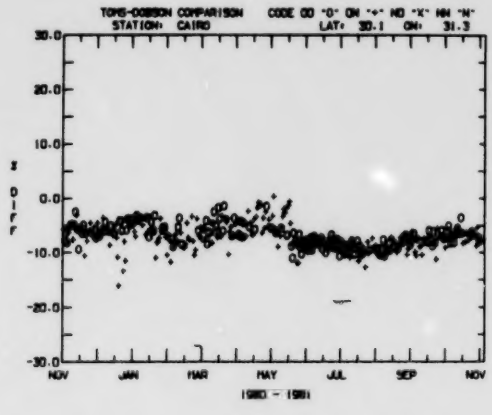
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	320	274.0	16.4	284.8	17.3	-3.83	2.13
OO	124	272.0	17.5	283.9	17.9	-4.26	1.64
ON	196	275.3	15.5	285.4	17.0	-3.56	2.35
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



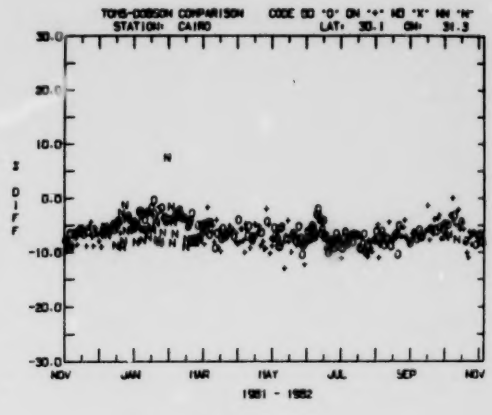
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	332	282.3	18.1	293.3	21.2	-3.75	2.08
OO	104	277.9	18.9	287.3	22.0	-3.26	2.04
ON	198	284.6	17.3	296.5	23.2	-4.00	2.08
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



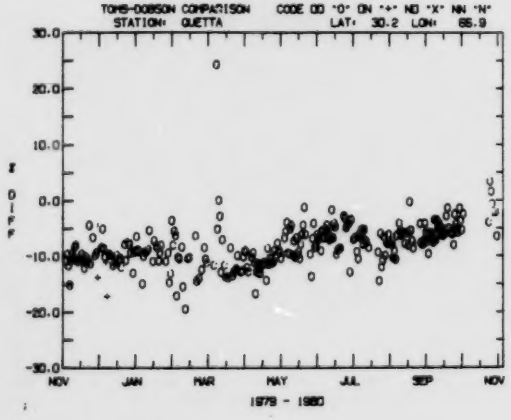
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	345	279.8	15.9	308.8	18.8	-8.63	2.19
OO	135	278.6	14.1	305.2	16.2	-8.56	1.71
ON	114	281.9	14.7	313.1	17.4	-9.82	2.12
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	96	279.1	19.3	301.6	21.8	-7.31	2.10



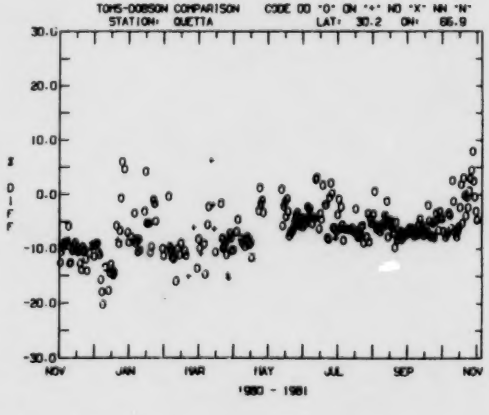
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	359	290.3	23.9	311.8	24.9	-6.92	2.40
OO	171	288.9	19.2	310.5	20.8	-6.87	2.05
ON	188	291.6	27.5	313.0	28.2	-6.87	2.68
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



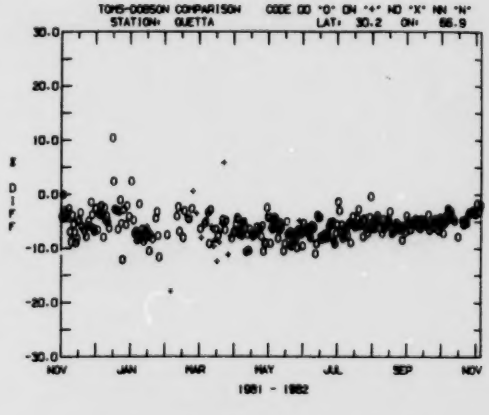
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	386	297.1	27.8	317.4	28.9	-6.44	2.19
OO	151	298.4	23.5	318.3	25.4	-6.28	2.02
ON	186	293.5	25.8	315.0	26.0	-6.83	2.04
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	49	305.3	42.1	323.0	39.9	-5.62	2.66



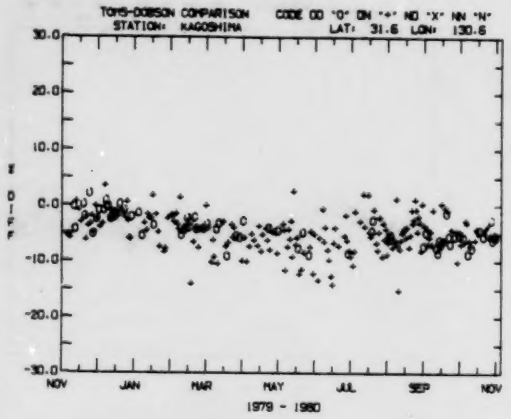
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	269	271.9	14.9	295.4	15.7	-8.21	3.96
OO	265	272.3	14.5	295.7	15.7	-8.14	3.93
ON	4	241.3	0.0	276.0	0.0	-12.91	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



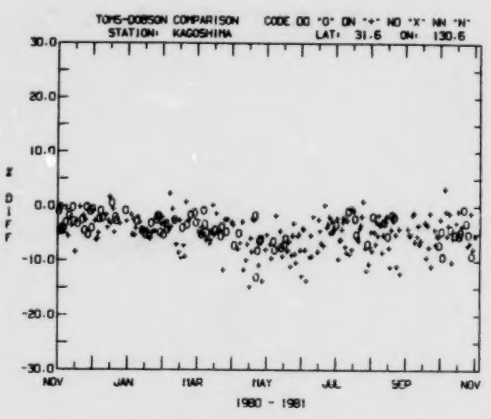
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	285	272.4	14.8	291.1	13.7	-6.42	4.36
OO	274	272.0	14.3	290.4	13.3	-6.35	4.26
ON	11	282.4	23.3	307.5	12.7	-8.23	6.40
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



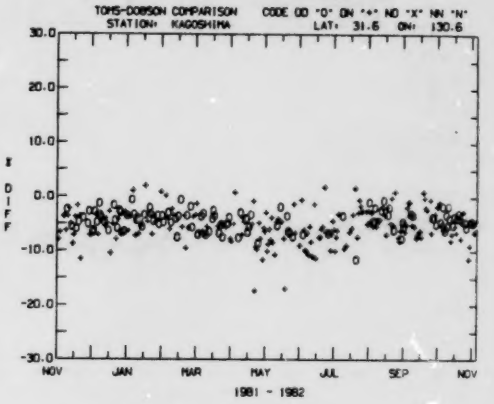
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	316	283.0	19.6	300.2	21.2	-5.76	2.55
OO	297	281.7	18.1	298.6	20.1	-5.68	2.31
ON	19	302.2	30.1	324.6	22.6	-7.04	4.87
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



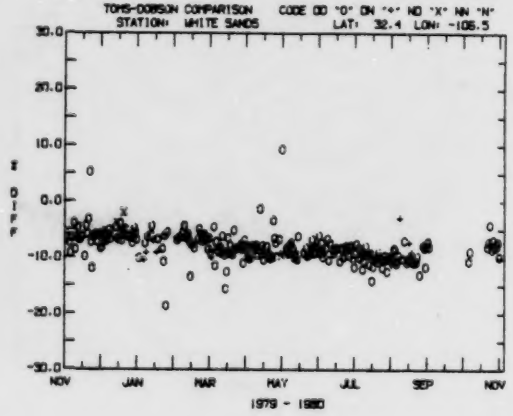
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	283	278.4	20.6	292.4	25.7	-4.80	3.16
OO	74	272.6	19.3	284.1	23.3	-4.08	2.58
ON	189	280.7	20.7	295.7	26.0	-5.09	3.34
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



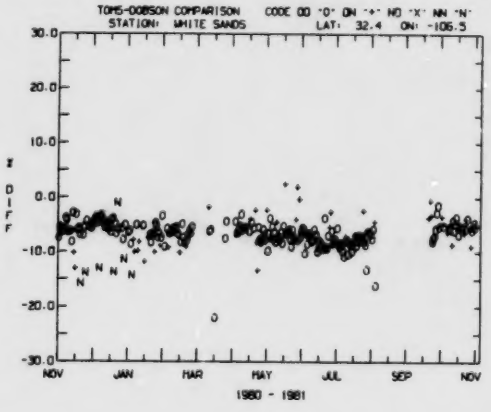
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	293	284.9	23.5	298.8	27.7	-4.77	3.05
OO	84	286.7	30.4	297.9	34.5	-3.86	2.41
ON	209	284.1	20.1	299.2	24.4	-5.14	3.20
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



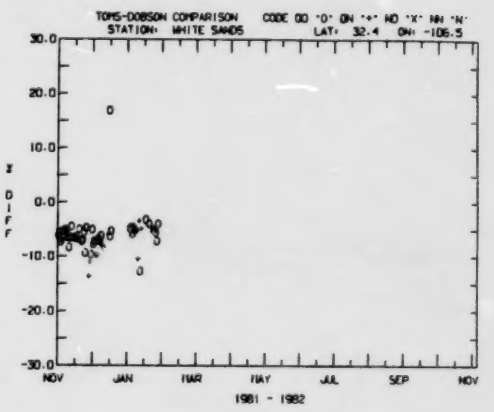
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	304	288.3	24.9	303.0	28.1	-4.98	2.77
OO	115	285.8	26.3	298.4	29.0	-4.38	1.83
ON	189	289.9	24.0	305.8	27.3	-5.34	3.16
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



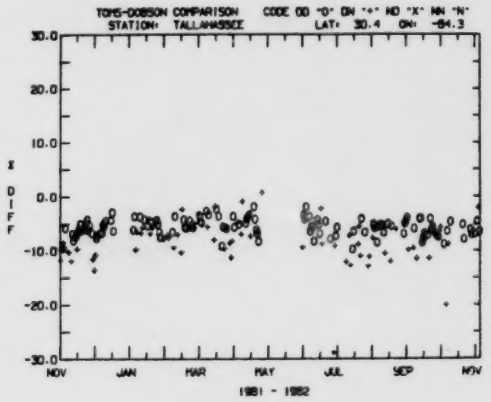
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	261	288.0	24.0	314.4	25.9	-8.10	2.58
OO	245	288.5	24.3	315.0	26.0	-8.12	2.58
ON	14	281.4	18.7	308.4	20.6	-8.48	1.97
NO	2	273.5	0.0	282.5	0.0	-2.88	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



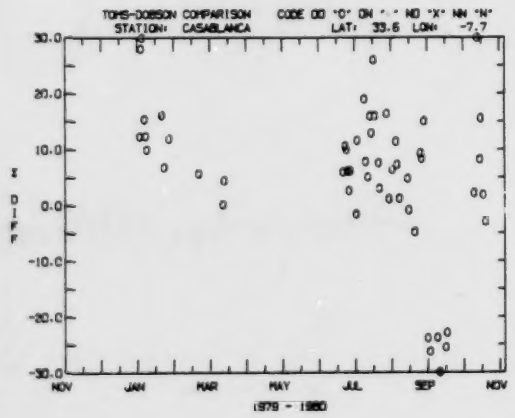
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	266	286.9	22.0	309.1	25.7	-6.62	2.68
OO	210	288.3	21.4	310.4	27.2	-6.56	2.13
ON	49	282.7	23.6	303.0	25.9	-6.12	3.54
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	7	272.6	23.7	312.1	35.3	-11.87	4.96



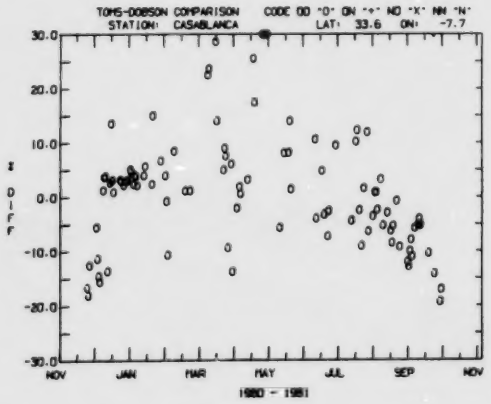
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	58	260.9	21.2	279.6	21.1	-6.18	3.76
OO	42	261.4	19.9	278.8	21.4	-5.69	3.95
ON	16	259.5	24.9	281.6	21.1	-7.46	2.94
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



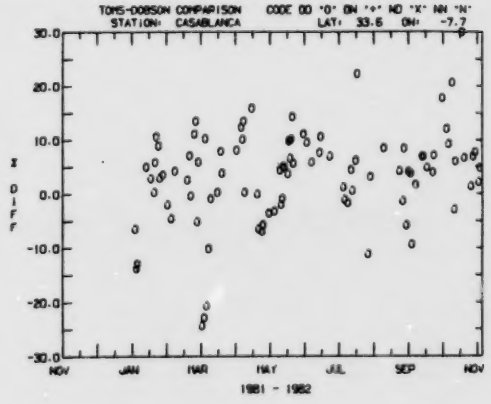
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	187	286.9	25.3	307.4	27.3	-6.64	3.16
OO	121	286.0	25.1	302.9	25.1	-5.62	1.54
ON	65	288.6	25.7	315.7	29.3	-8.51	4.33
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



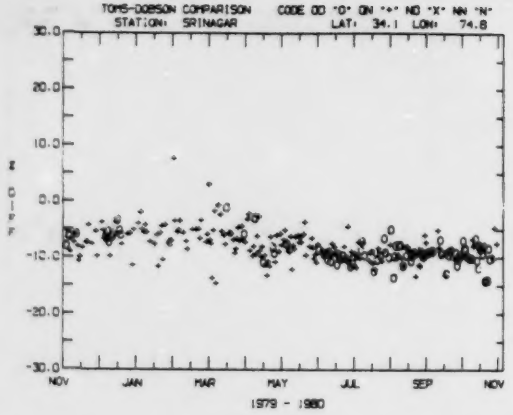
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	53	282.8	14.2	282.6	45.3	5.81	14.11
OO	53	282.8	14.2	282.6	45.3	5.81	14.11
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



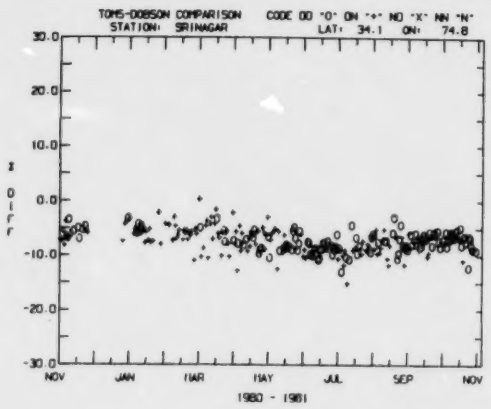
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	103	302.6	25.7	299.3	24.7	1.78	12.56
OO	103	302.6	25.7	299.3	24.7	1.78	12.56
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



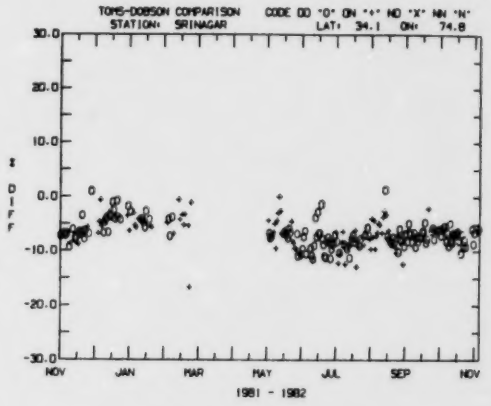
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	95	311.8	22.2	303.6	33.8	3.44	8.91
OO	95	311.9	22.2	303.6	33.8	3.44	8.91
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



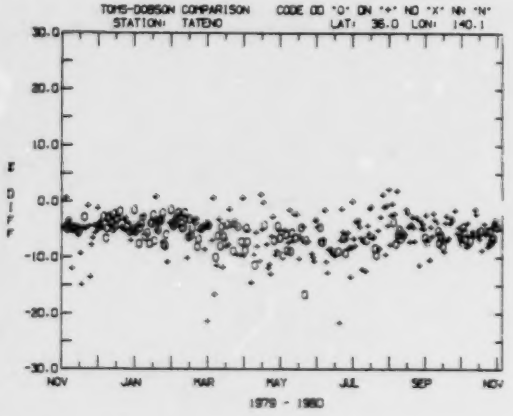
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	279	278.3	22.3	303.5	19.9	-7.96	2.71
OO	92	267.9	13.9	294.9	12.3	-8.76	2.21
ON	187	283.3	23.8	307.7	21.5	-7.57	2.85
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



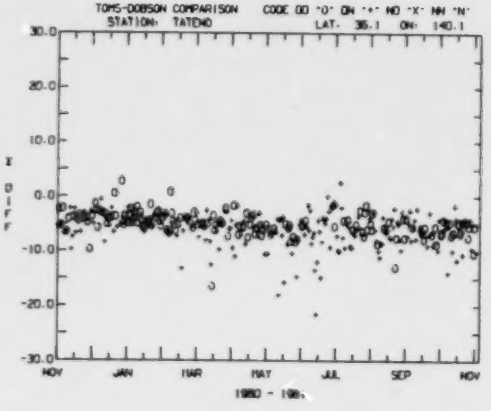
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	273	282.7	20.5	305.5	20.8	-7.22	2.12
OO	130	277.3	16.3	299.8	18.1	-7.24	1.82
ON	143	287.6	22.5	310.7	21.9	-7.20	2.37
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



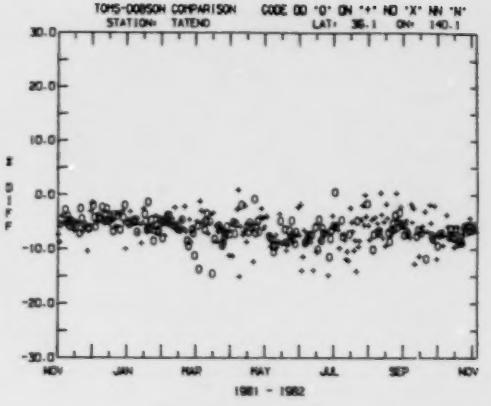
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	236	283.3	23.6	304.7	23.8	-6.77	2.57
OO	150	279.6	17.8	300.8	18.0	-6.81	2.31
ON	86	289.9	30.2	311.6	30.3	-6.70	2.99
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



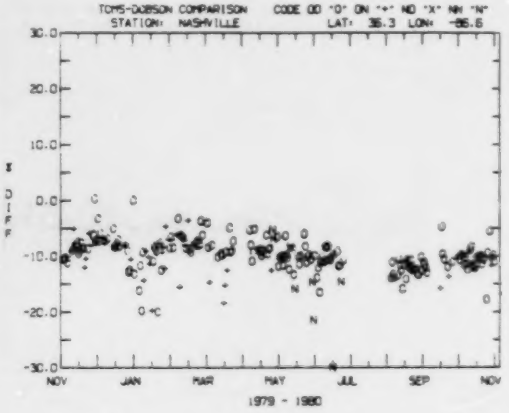
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	351	300.3	32.4	319.7	36.4	-5.78	3.26
OO	132	307.2	35.6	326.0	38.6	-5.52	2.19
ON	188	295.7	29.4	315.4	33.5	-5.95	3.80
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



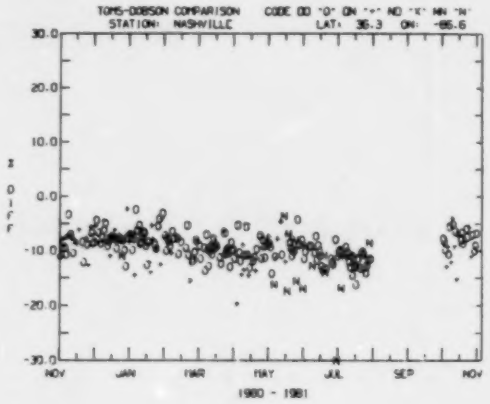
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	350	312.1	36.3	330.5	37.6	-5.58	2.90
OO	157	321.6	39.8	338.0	40.6	-4.80	2.16
ON	193	304.4	31.2	324.5	33.7	-6.14	3.29
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



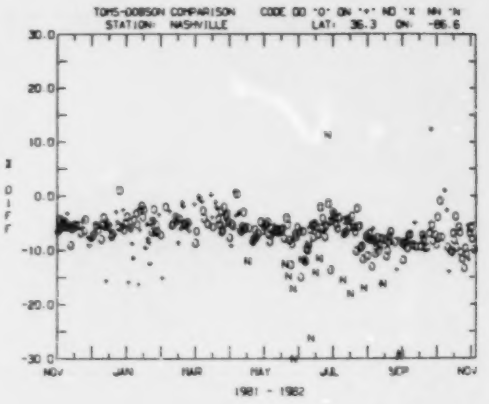
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	356	313.3	38.6	334.3	38.5	-6.25	2.63
OO	181	320.8	38.2	341.8	42.1	-6.15	2.12
ON	175	305.6	32.0	326.6	35.0	-6.35	3.07
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



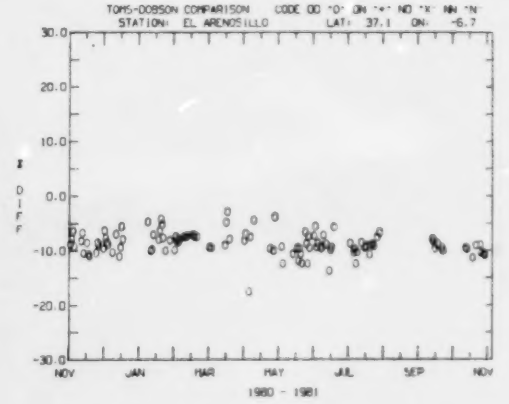
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	231	304.3	32.9	338.6	35.5	-10.06	3.48
OO	185	304.8	32.8	337.8	34.0	-9.73	2.86
ON	36	295.9	33.1	331.3	34.4	-10.65	3.74
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	10	324.9	26.0	379.9	42.5	-13.87	8.19



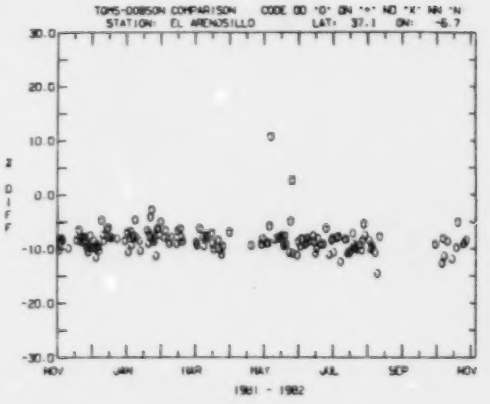
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	261	305.4	29.4	337.5	33.8	-9.57	3.24
OO	185	306.1	28.5	337.2	32.1	-9.34	2.38
ON	60	299.0	32.5	329.1	33.9	-9.27	3.42
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	16	320.9	22.3	371.7	33.6	-13.40	7.09



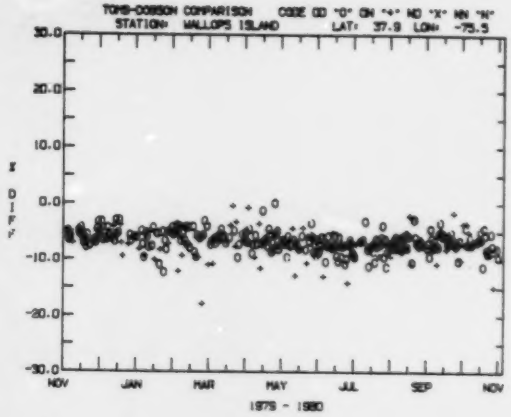
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	310	308.3	32.7	331.2	35.9	-6.92	4.53
OO	228	308.9	31.4	329.7	31.9	-6.45	2.49
ON	64	303.1	39.4	321.6	35.3	-6.03	4.95
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	18	319.4	17.1	384.2	43.4	-16.02	10.26



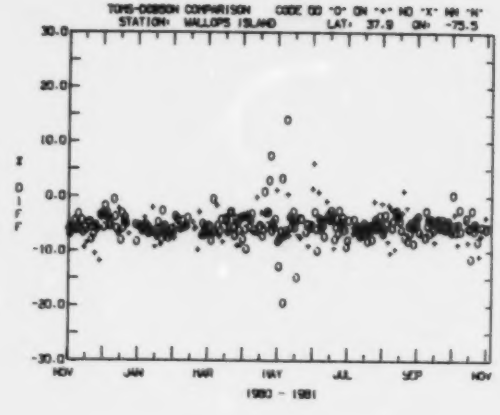
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	113	315.3	30.2	345.4	32.5	-8.75	2.09
OO	113	315.3	30.2	345.4	32.5	-8.75	2.09
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



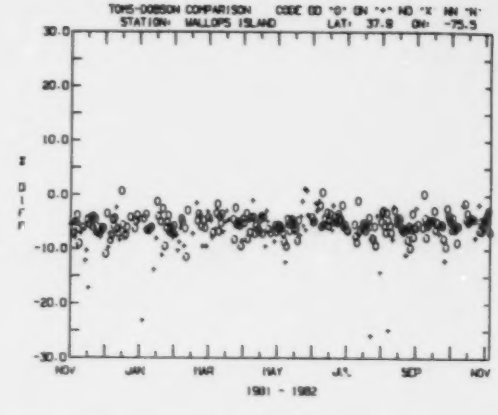
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	156	313.7	33.3	342.1	35.3	-8.32	2.46
OO	156	313.7	33.3	342.1	35.3	-8.32	2.46
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



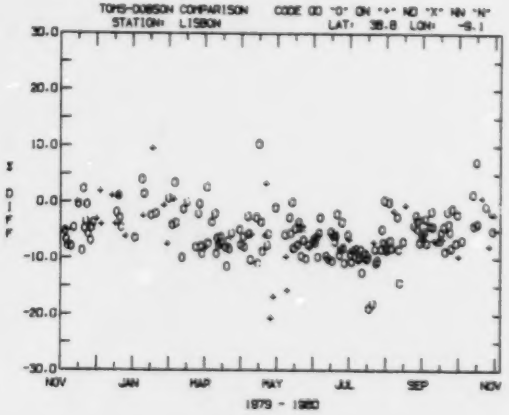
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	327	310.7	34.4	333.6	36.5	-6.84	2.25
OO	247	312.2	35.5	334.5	36.8	-6.67	1.77
ON	80	304.3	29.0	329.8	34.4	-7.56	3.54
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



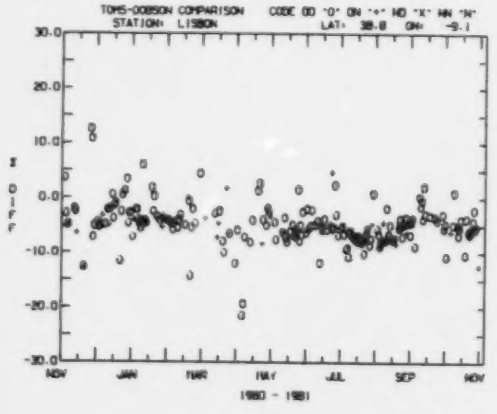
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	328	313.1	35.0	330.7	36.6	-5.31	2.80
OO	252	313.7	34.2	331.1	35.9	-5.25	2.50
ON	76	311.1	37.7	329.3	38.2	-5.52	3.44
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



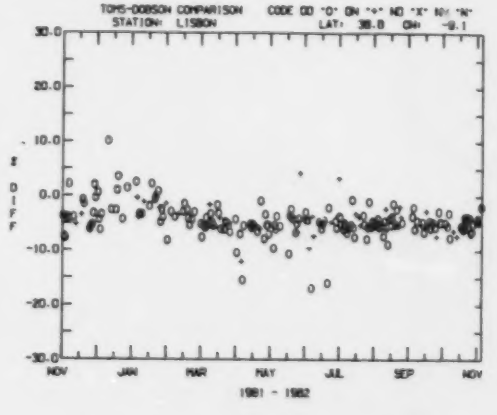
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	315	315.7	37.6	335.1	39.1	-5.76	3.03
OO	224	315.6	37.5	333.2	39.4	-5.30	1.95
ON	91	316.0	38.1	339.5	39.0	-6.81	4.66
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



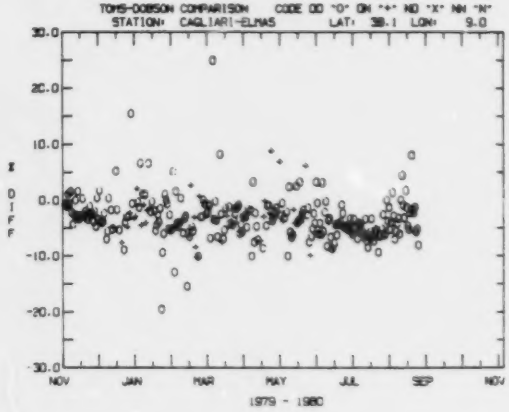
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	196	327.7	32.1	326.6	38.5	-5.51	4.43
OO	161	328.8	32.2	327.7	37.3	-5.59	4.07
ON	35	322.9	31.4	321.5	46.6	-5.16	5.80
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



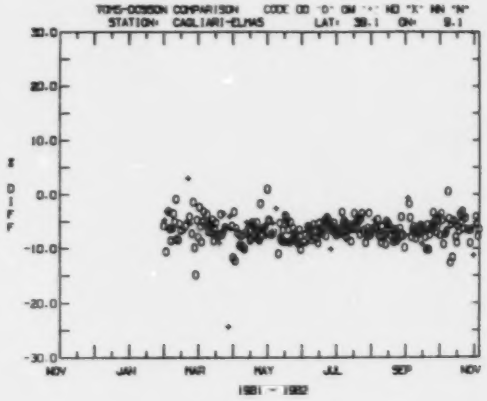
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	218	315.9	34.1	331.9	35.8	-4.78	3.85
OO	189	316.9	33.6	332.9	36.0	-4.74	3.93
ON	29	309.2	37.2	325.3	38.7	-5.05	3.44
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



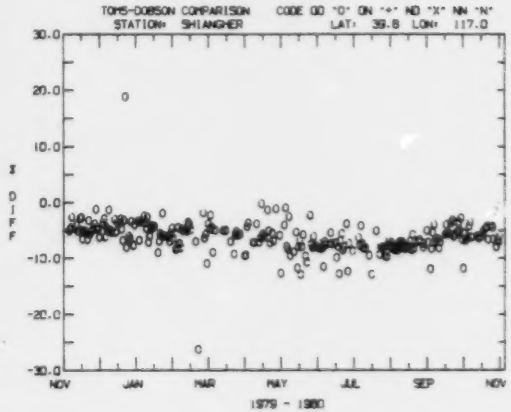
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	212	317.2	32.8	332.0	35.7	-4.44	2.96
OO	169	318.4	33.3	331.2	36.5	-4.47	3.00
ON	43	320.4	31.0	334.8	32.8	-4.35	2.83
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



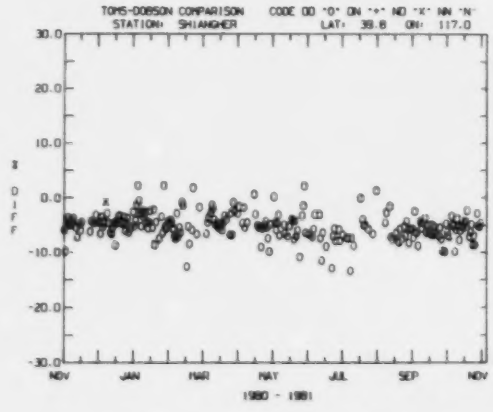
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	279	323.1	38.9	333.9	38.2	-3.13	4.10
OO	244	320.5	37.6	331.2	38.2	-3.16	4.06
ON	35	341.7	43.1	352.1	41.9	-2.92	4.37
ND	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



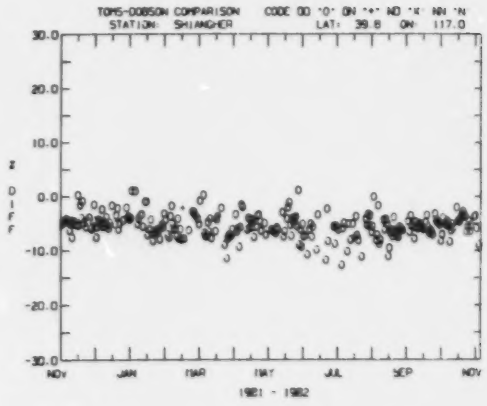
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	273	325.4	37.2	348.2	38.3	-6.53	2.44
OO	234	323.8	35.5	346.5	37.3	-6.53	2.11
ON	39	334.9	45.7	358.5	48.9	-6.50	3.90
ND	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



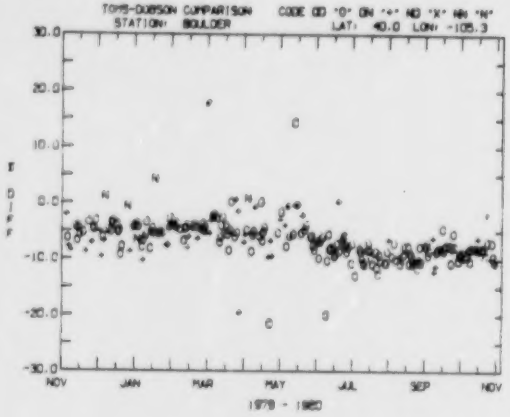
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	248	336.5	39.6	358.4	41.6	-6.14	3.11
OO	248	336.5	39.6	358.4	41.6	-6.14	3.11
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
ND	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



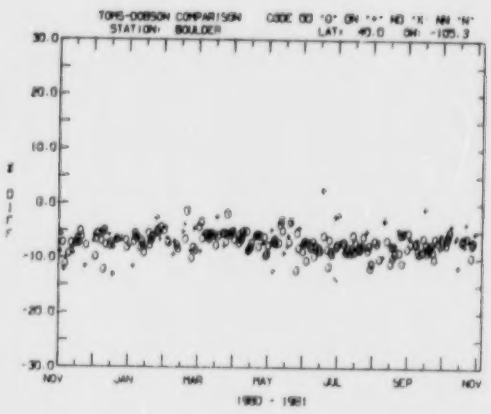
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	250	341.2	44.1	358.2	43.2	-5.10	2.41
OO	248	341.2	44.0	359.3	43.2	-5.11	2.40
ON	1	282.0	0.0	305.0	0.0	-7.55	0.00
ND	1	393.0	0.0	386.0	0.0	-0.77	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



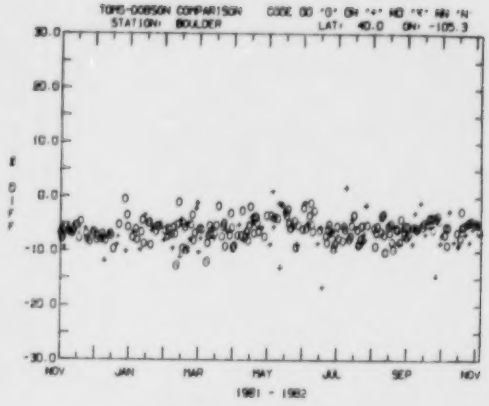
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	266	333.8	41.1	352.4	42.1	-5.25	2.20
OO	265	333.6	40.9	352.2	42.0	-5.30	2.19
ON	1	406.0	0.0	415.0	0.0	-2.18	0.00
ND	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



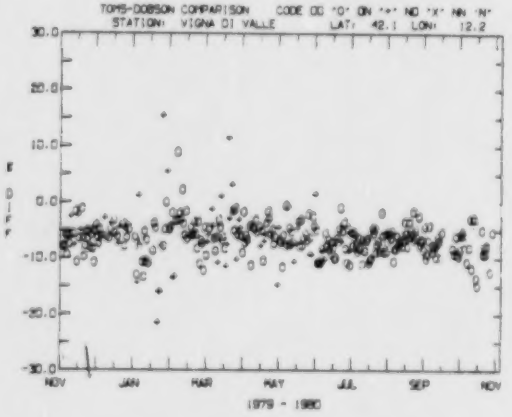
CODE	NUM	TOMS	STD	DOBSON	STD	E DIFF	STD
ALL	232	300.3	35.5	323.2	35.0	-6.63	3.62
OO	178	295.6	33.7	318.4	32.9	-7.02	3.31
ON	48	317.5	38.3	338.1	38.9	-5.67	3.90
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	5	303.6	24.7	305.8	25.6	-0.16	3.95



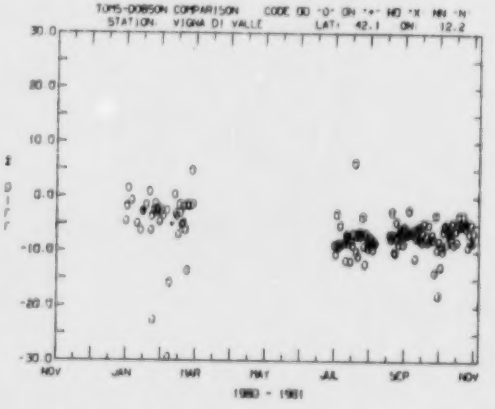
CODE	NUM	TOMS	STD	DOBSON	STD	E DIFF	STD
ALL	241	298.6	32.5	321.5	33.0	-7.01	2.14
OO	177	297.5	31.1	321.0	31.1	-7.19	1.77
ON	63	301.9	35.3	323.4	38.0	-6.51	2.91
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	1	268.0	0.0	287.0	0.0	-6.47	0.00



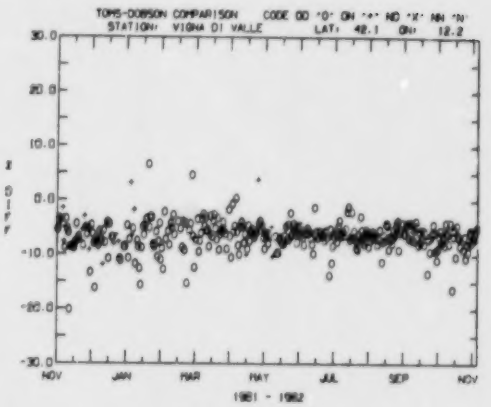
CODE	NUM	TOMS	STD	DOBSON	STD	E DIFF	STD
ALL	257	309.2	44.9	329.8	45.7	-6.12	2.42
OO	186	308.3	44.0	328.4	45.2	-5.96	1.99
ON	61	311.2	47.0	333.0	48.1	-6.42	3.19
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



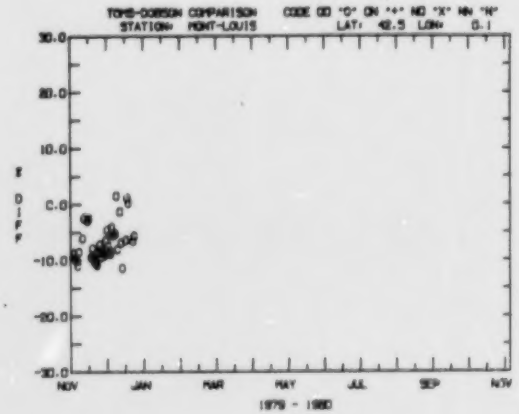
CODE	NUM	TOMS	STD	DOBSON	STD	E DIFF	STD
ALL	315	328.2	38.7	348.4	40.3	-6.43	3.86
OO	262	323.6	38.7	345.8	40.2	-6.51	2.82
ON	53	338.8	37.4	361.2	38.3	-6.05	8.38
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



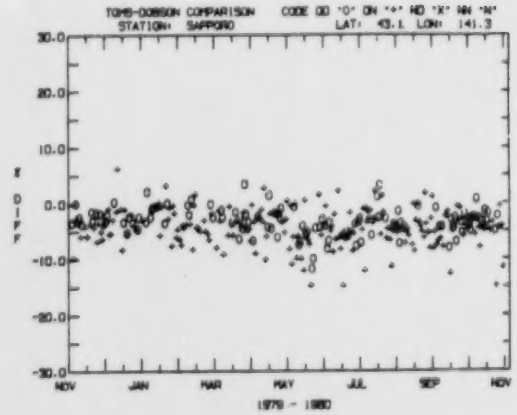
CODE	NUM	TOMS	STD	DOBSON	STD	E DIFF	STD
ALL	146	316.9	38.9	337.8	38.2	-6.45	4.12
OO	143	316.8	40.3	338.0	38.5	-6.50	4.15
ON	3	316.0	0.0	330.7	0.0	-4.61	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



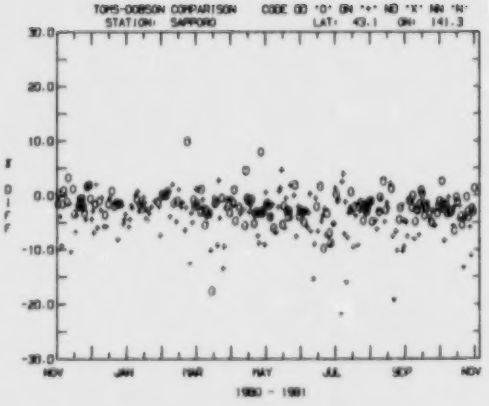
CODE	NUM	TOMS	STD	DOBSON	STD	E DIFF	STD
ALL	342	326.8	39.2	348.5	39.7	-6.47	2.78
OO	321	327.5	39.2	349.4	39.4	-6.53	2.68
ON	20	317.2	39.7	336.2	42.0	-5.75	4.19
NO	1	255.0	0.0	305.0	0.0	-3.49	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



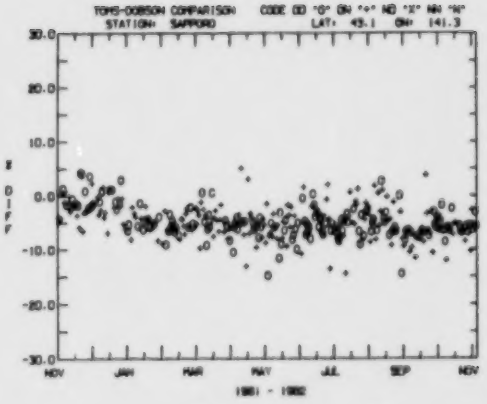
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	59	271.6	34.3	288.3	30.3	-6.80	3.38
OO	59	271.6	34.3	288.3	30.3	-6.80	3.38
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



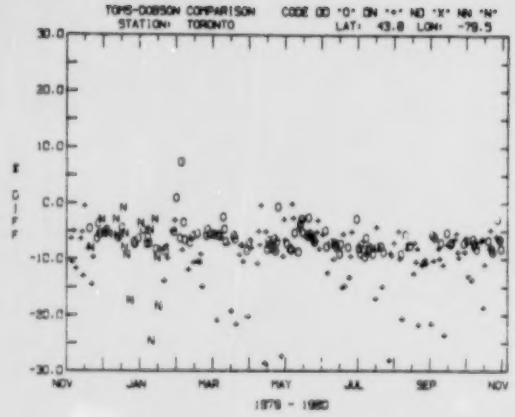
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	326	351.6	57.0	368.4	57.8	-4.05	3.14
OO	115	347.4	53.8	359.4	54.1	-3.36	2.49
ON	181	354.2	58.8	370.7	58.7	-4.47	3.42
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



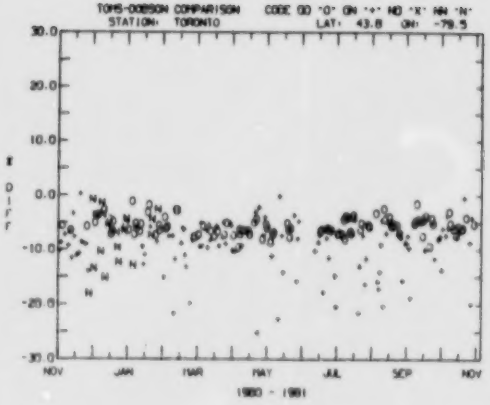
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	317	358.3	55.6	366.5	55.2	-3.07	3.71
OO	143	354.2	53.3	361.2	53.8	-1.92	2.84
ON	174	361.6	57.3	376.4	55.5	-4.02	4.07
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



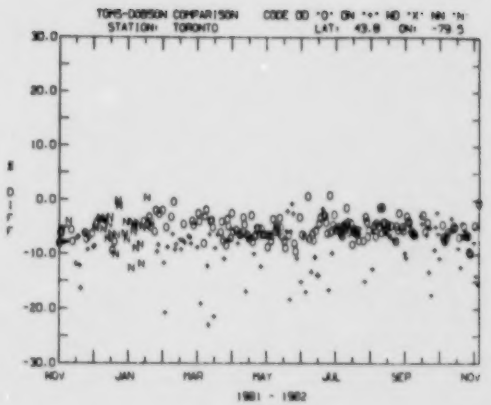
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	335	359.1	56.6	377.3	58.7	-4.82	3.24
OO	164	357.5	56.4	375.9	58.9	-4.86	3.03
ON	171	360.7	56.9	378.7	58.7	-4.75	3.43
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



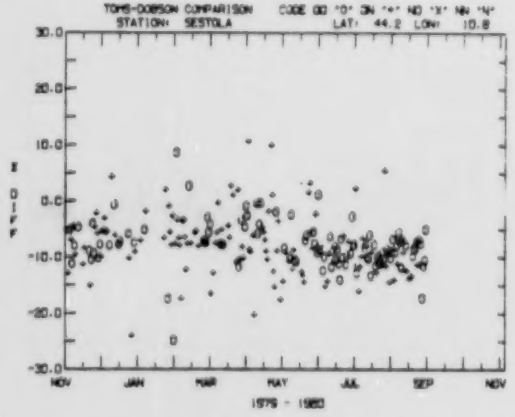
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	231	333.5	49.5	363.8	52.8	-8.22	4.83
OO	102	342.1	48.8	364.8	48.3	-6.30	2.79
ON	113	330.9	49.2	368.5	56.6	-9.96	5.56
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	16	288.2	40.5	324.6	36.5	-8.10	8.61



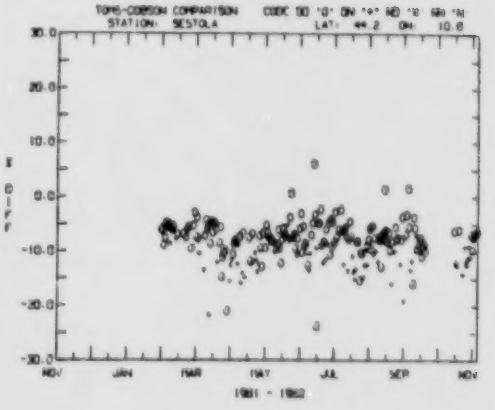
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	235	335.8	44.2	363.4	48.9	-7.63	4.26
OO	105	337.5	41.8	357.0	45.7	-5.58	1.61
ON	111	336.3	47.3	372.0	52.6	-9.59	4.94
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	19	323.6	37.7	348.5	34.7	-7.55	4.91



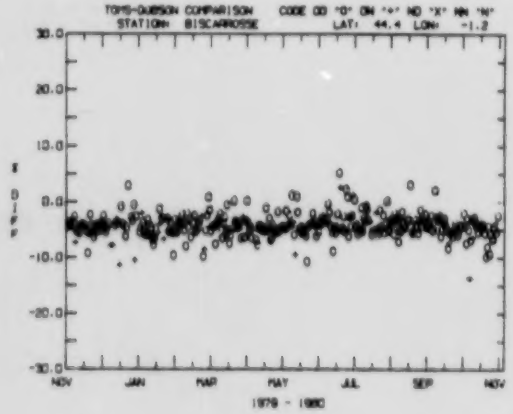
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	288	335.0	42.9	358.3	45.6	-6.58	3.64
OO	170	338.8	45.1	357.7	46.5	-5.26	1.91
ON	90	327.2	40.7	361.8	48.1	-9.45	4.57
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	28	332.3	32.3	351.0	32.9	-5.45	3.03



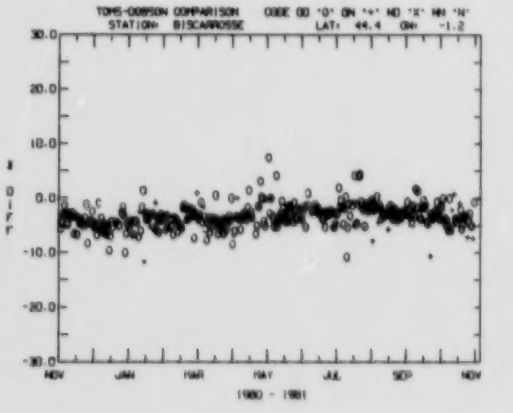
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	225	329.8	48.7	356.0	48.8	-7.63	5.02
OO	108	325.2	38.7	348.8	38.1	-7.80	4.10
ON	117	335.9	47.0	362.6	52.3	-7.76	5.76
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



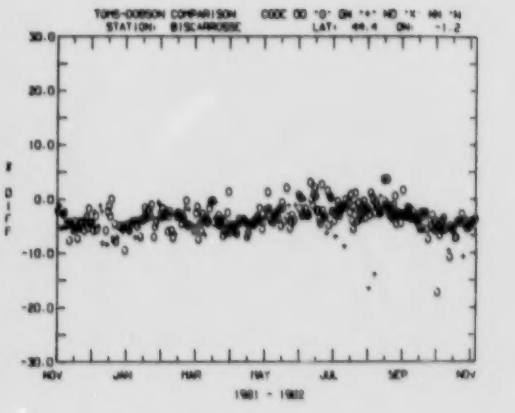
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	225	334.9	36.7	363.4	42.4	-8.51	3.75
OO	158	335.5	36.4	358.8	39.7	-7.23	3.31
ON	66	333.4	37.8	374.3	46.8	-11.60	2.84
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



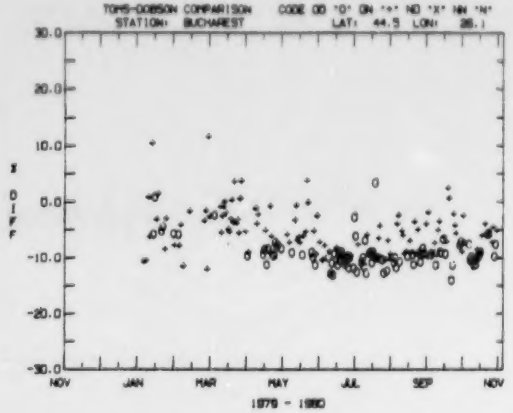
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	337	317.0	40.6	331.7	43.8	-4.26	2.23
OO	288	317.8	42.0	332.4	44.5	-4.18	2.08
ON	39	310.1	35.2	327.1	38.1	-5.08	3.11
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



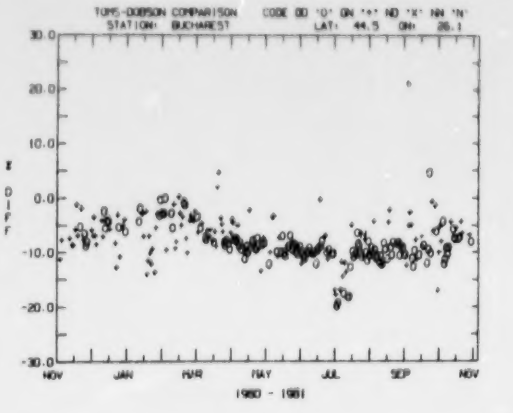
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	351	322.4	40.8	333.4	40.6	-3.34	2.31
OO	313	323.3	41.1	334.1	41.0	-3.26	2.22
ON	38	315.0	37.9	327.9	37.4	-3.97	2.69
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



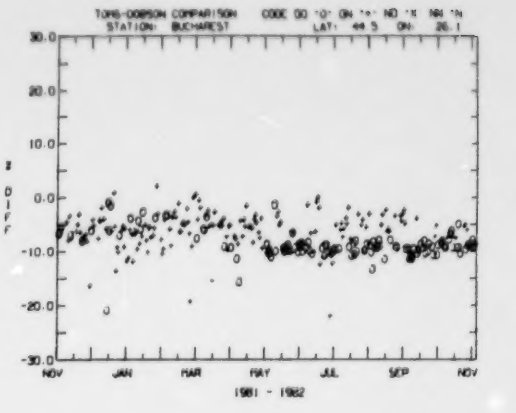
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	349	324.9	42.1	336.9	42.2	-3.57	2.54
OO	300	324.8	42.7	335.9	42.8	-3.36	2.28
ON	49	325.6	38.4	342.2	38.4	-4.85	3.51
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



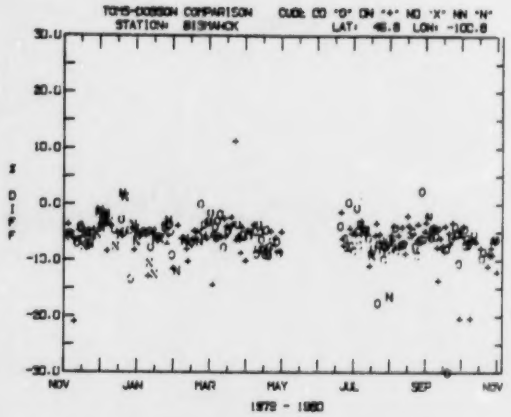
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	199	332.0	43.7	357.2	44.7	-6.85	4.16
OO	91	320.0	38.8	353.4	43.1	-9.21	2.75
ON	108	342.1	45.2	360.4	45.8	-4.87	4.13
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



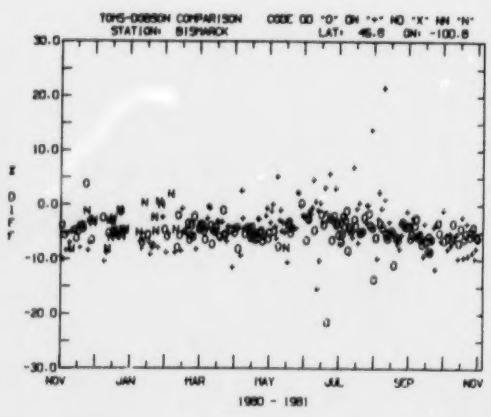
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	261	333.5	45.3	361.9	48.7	-7.80	4.18
OO	141	326.7	40.0	357.9	43.7	-8.70	3.39
ON	119	341.8	49.8	367.0	53.8	-6.75	4.77
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	1	297.0	0.0	318.0	0.0	-6.67	0.00



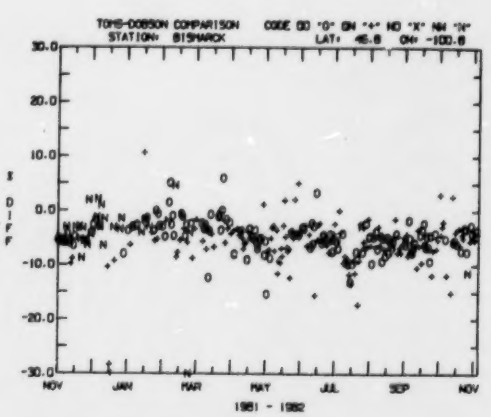
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	289	332.7	42.7	357.9	43.4	-7.13	3.31
OO	121	317.0	37.1	346.7	39.1	-8.63	2.57
ON	168	344.0	43.0	365.0	44.7	-6.05	3.37
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



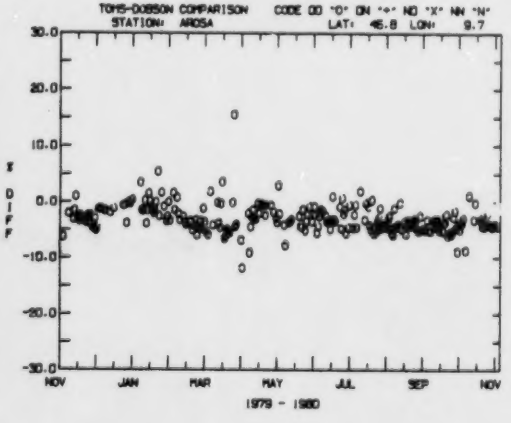
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	284	317.5	44.2	338.7	46.5	-6.20	3.60
OO	117	313.1	48.2	334.1	50.2	-6.23	3.42
ON	108	320.0	39.8	342.3	41.7	-6.44	3.85
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	41	323.8	43.1	343.0	46.9	-5.46	3.41



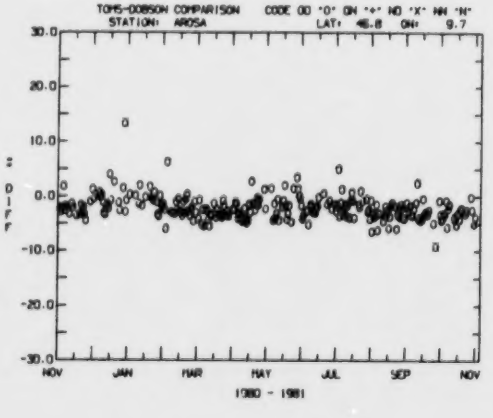
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	316	321.0	43.2	337.1	44.5	-4.47	3.64
OO	145	319.0	40.1	336.7	43.3	-4.91	2.39
ON	143	325.9	42.7	341.1	42.7	-4.16	4.68
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	28	306.0	56.8	318.5	55.0	-3.80	2.59



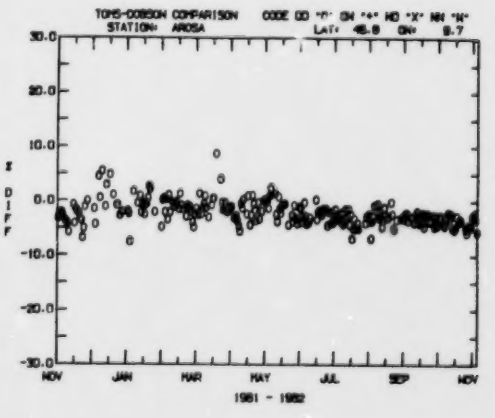
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	310	329.2	48.8	348.7	51.4	-5.21	4.22
OO	137	327.4	52.5	344.4	51.8	-4.71	3.02
ON	142	331.1	45.3	353.7	51.1	-5.94	4.80
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	31	328.2	43.6	344.5	50.4	-4.07	6.13



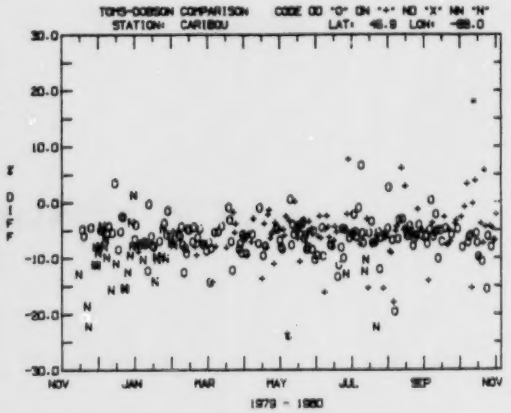
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	245	319.7	45.5	328.4	44.0	-2.97	2.51
OO	245	319.7	45.5	328.4	44.0	-2.97	2.51
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



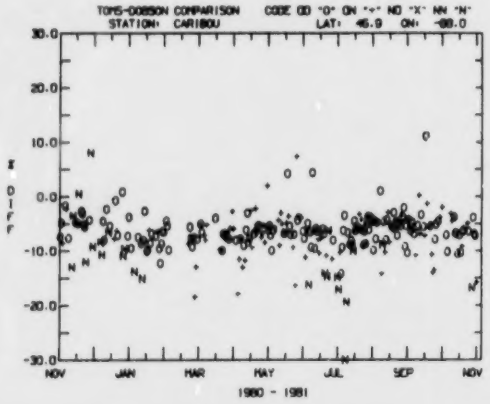
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	256	323.6	43.4	327.8	42.6	-2.10	2.21
OO	256	323.6	43.4	327.8	42.6	-2.10	2.21
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



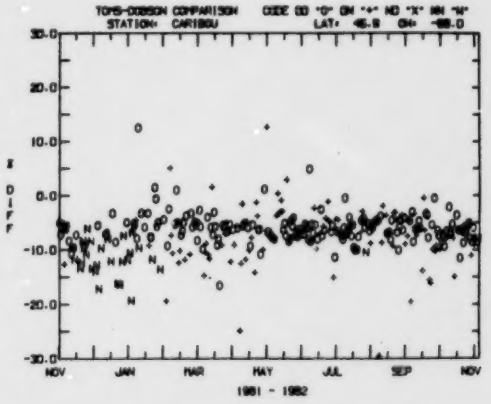
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	264	326.8	47.0	330.9	43.9	-2.15	2.11
OO	264	326.8	47.0	330.9	43.9	-2.15	2.11
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



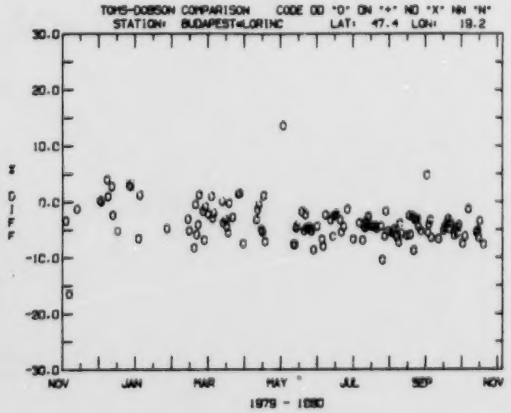
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	293	348.0	50.4	373.1	55.1	-6.54	4.58
OO	158	344.4	49.8	367.6	54.0	-6.18	3.16
ON	98	351.5	47.1	374.5	54.9	-5.75	5.67
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	36	354.0	61.9	383.4	57.2	-10.27	4.87



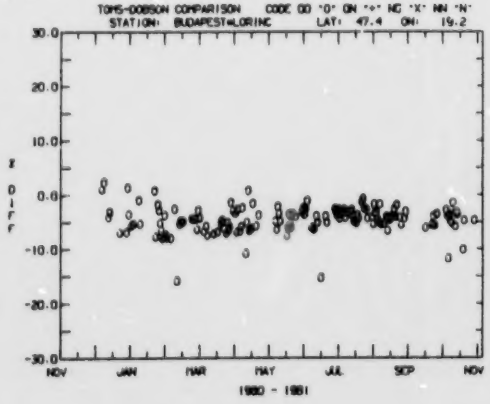
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	264	344.0	45.0	369.5	49.0	-6.90	4.25
OO	156	341.7	46.0	383.5	49.9	-6.08	2.92
ON	81	353.3	43.9	380.0	45.3	-7.14	4.35
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	27	329.7	38.6	372.0	50.9	-10.95	7.27



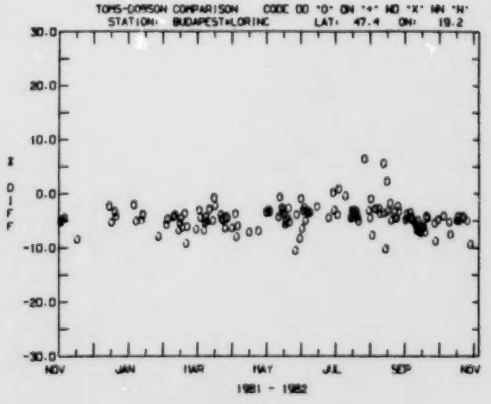
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	304	342.9	51.8	368.4	54.1	-7.03	4.31
OO	173	344.8	52.5	366.2	54.3	-5.89	2.84
ON	98	349.5	50.8	378.1	55.2	-7.54	5.67
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	32	311.9	40.2	350.4	44.4	-11.10	3.30



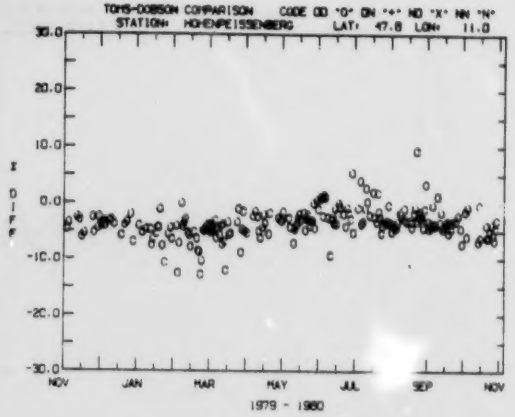
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	129	331.5	40.1	344.9	41.1	-3.80	3.37
OO	129	331.5	40.1	344.9	41.1	-3.80	3.37
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



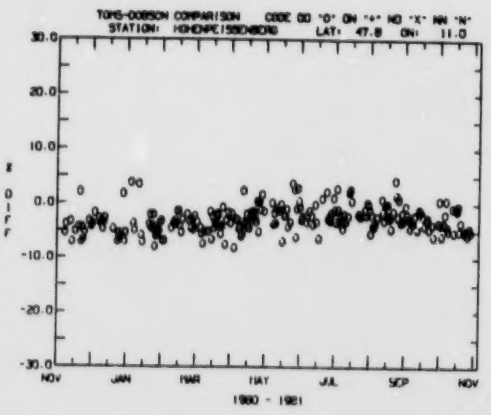
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	152	335.7	38.4	351.6	41.9	-4.55	2.48
OO	152	335.7	38.4	351.6	41.9	-4.55	2.48
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



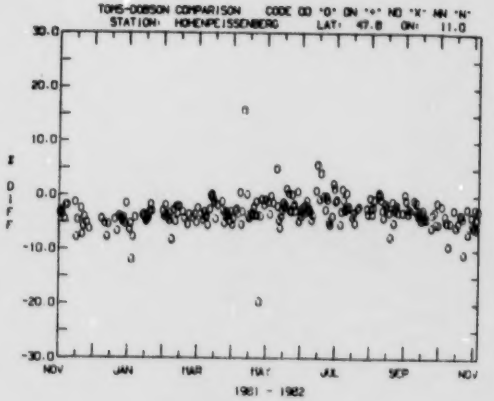
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	138	336.8	46.1	351.9	48.6	-4.37	2.37
OO	136	336.8	46.1	351.9	48.6	-4.37	2.37
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



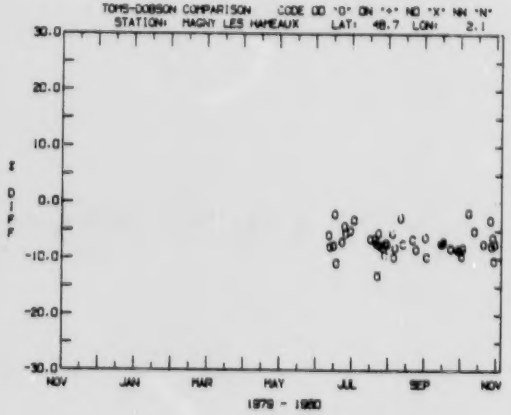
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	223	324.1	44.6	336.1	45.8	-3.59	2.70
OO	223	324.1	44.6	336.1	45.8	-3.59	2.70
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



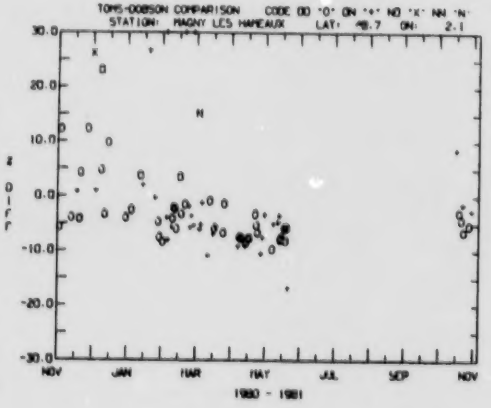
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	234	324.9	41.1	334.1	41.8	-2.85	2.40
OO	234	324.9	41.1	334.1	41.8	-2.85	2.40
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



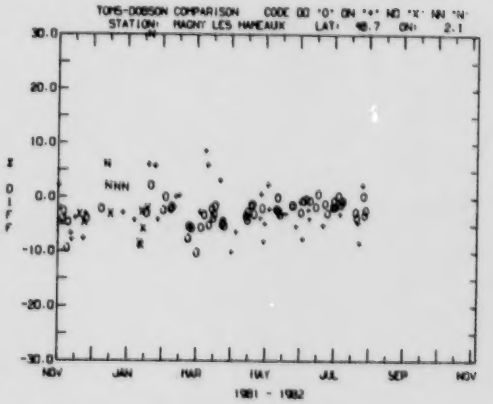
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	239	329.3	46.9	339.3	47.6	-3.02	2.74
OO	239	329.3	46.9	339.3	47.6	-3.02	2.74
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



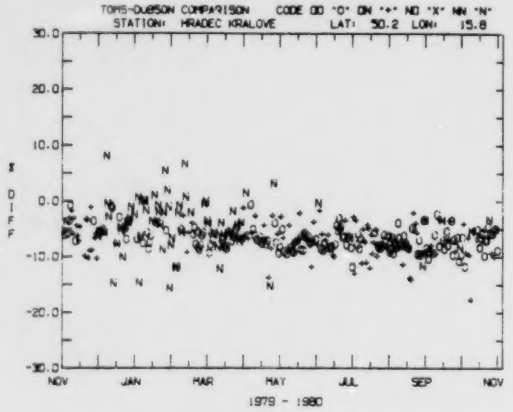
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	45	303.0	37.3	326.1	38.0	-7.02	2.28
OO	45	303.0	37.3	326.1	38.0	-7.02	2.28
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



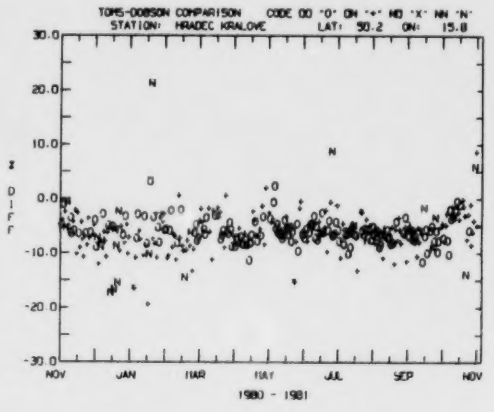
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	80	343.4	52.1	350.2	62.0	-1.08	10.32
OO	45	331.6	47.5	342.6	56.4	-2.70	8.55
ON	33	356.8	55.5	363.7	67.6	-0.13	12.85
NO	1	323.0	0.0	256.0	0.0	26.17	0.00
NN	1	388.0	0.0	337.0	0.0	15.13	0.00



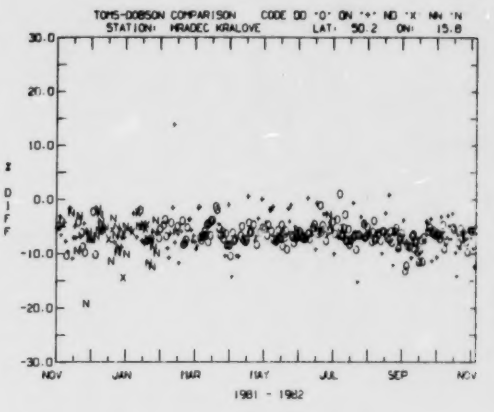
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	113	347.0	46.4	355.0	45.2	-2.22	5.03
OO	59	351.7	44.0	361.4	44.7	-2.67	2.26
ON	41	344.7	46.8	353.7	44.9	-2.55	4.31
NO	8	317.5	55.3	333.2	54.8	-4.81	2.62
NN	5	356.6	50.3	324.8	8.1	9.81	15.43



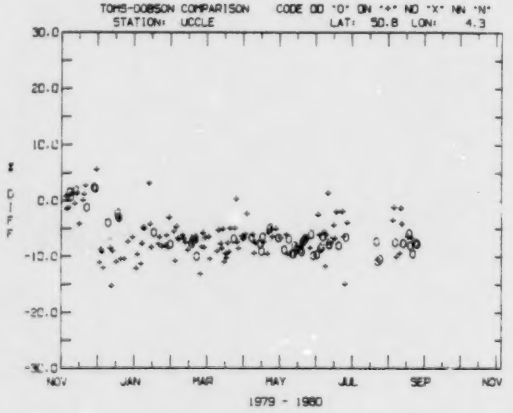
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	336	334.0	49.1	357.3	52.0	-6.26	3.33
OO	161	327.3	45.3	352.6	48.9	-6.82	1.97
ON	98	335.4	55.3	360.9	58.6	-6.82	3.22
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	77	346.1	46.8	362.5	49.0	-4.18	4.66



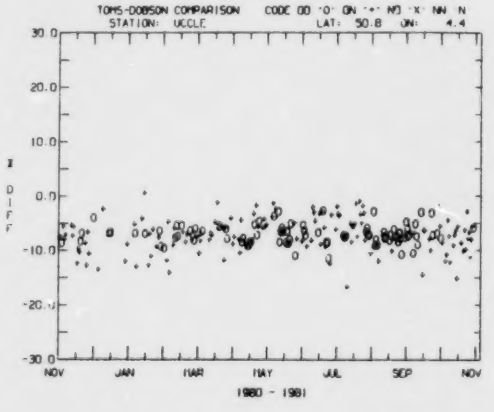
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	345	331.9	45.2	355.2	48.0	-6.04	3.71
OO	161	331.6	39.0	354.3	39.9	-5.94	2.21
ON	161	331.1	50.0	355.2	54.5	-6.20	3.76
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	23	338.8	51.8	362.0	52.4	-5.69	8.74



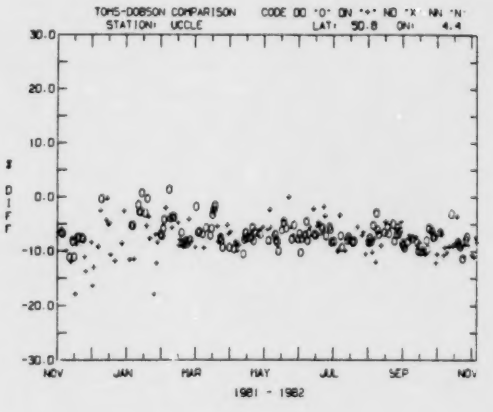
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	344	333.5	48.0	357.9	50.3	-6.34	2.89
OO	182	334.4	48.9	359.2	50.2	-6.50	1.91
ON	115	329.8	48.3	352.6	50.8	-5.94	3.83
NO	10	364.6	16.0	391.1	24.8	-6.15	3.18
NN	37	332.2	46.4	359.0	52.4	-6.66	3.39



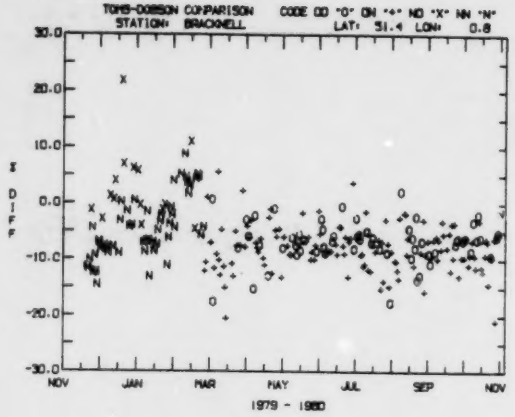
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	163	340.3	48.1	364.7	54.2	-6.48	3.62
OO	54	338.1	48.3	362.9	58.1	-6.55	3.26
ON	109	341.4	48.2	365.7	53.5	-6.45	3.79
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



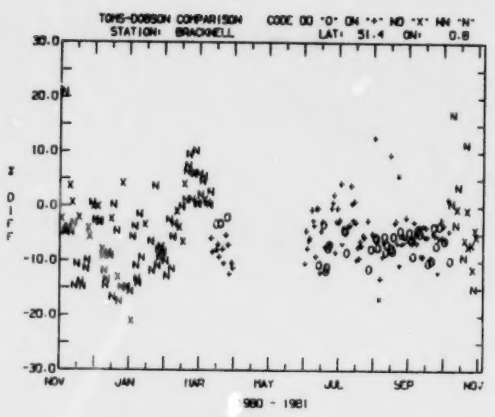
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	224	331.5	44.2	356.2	44.3	-7.08	2.80
OO	89	326.6	37.7	350.8	39.2	-7.00	1.77
ON	135	334.8	47.9	359.9	47.2	-7.14	3.31
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



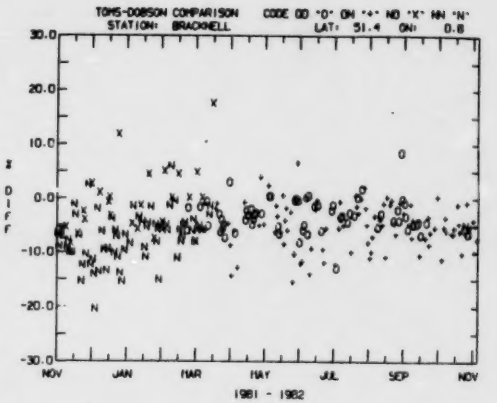
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	239	334.8	53.0	359.9	52.5	-7.20	2.84
OO	129	336.1	54.6	359.6	54.7	-6.72	2.35
ON	110	333.2	51.3	360.3	50.0	-7.77	3.25
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



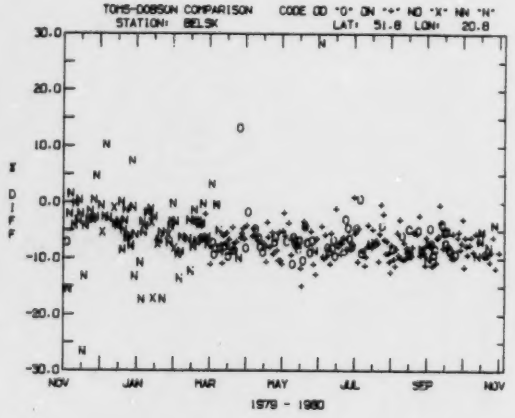
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	252	328.3	47.1	351.2	49.8	-6.41	5.28
OO	62	326.6	42.7	351.1	45.4	-6.89	3.75
ON	131	336.2	50.8	365.9	54.3	-8.07	4.13
NO	15	331.7	43.4	322.0	32.8	2.91	6.85
NN	54	310.2	38.6	323.8	28.4	-4.42	5.57



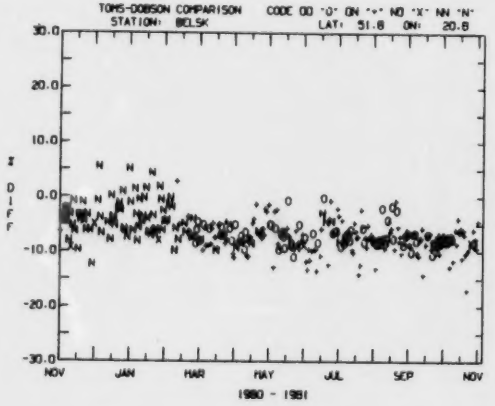
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	232	319.1	41.7	335.5	38.5	-4.92	6.02
OO	41	312.0	30.2	333.4	29.5	-6.51	2.51
ON	87	333.0	35.9	351.0	42.0	-4.95	4.75
NO	27	316.6	40.4	328.4	34.6	-3.75	5.51
NN	77	308.2	49.3	321.5	33.9	-4.47	8.29



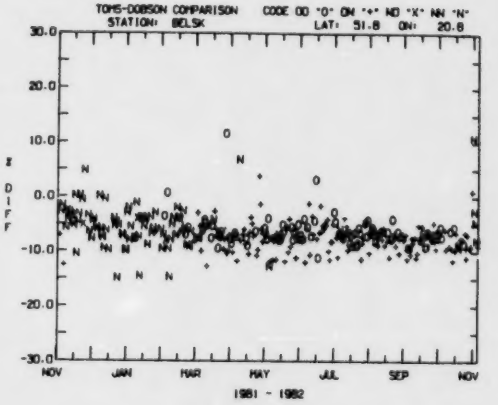
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	258	331.8	49.2	347.8	47.5	-4.72	4.68
OO	66	338.2	39.4	349.5	39.1	-3.27	3.08
ON	96	327.3	42.4	345.3	45.1	-5.15	4.23
NO	28	343.8	66.6	345.1	52.6	-0.88	6.05
NN	68	326.8	57.5	351.0	56.2	-7.10	4.54



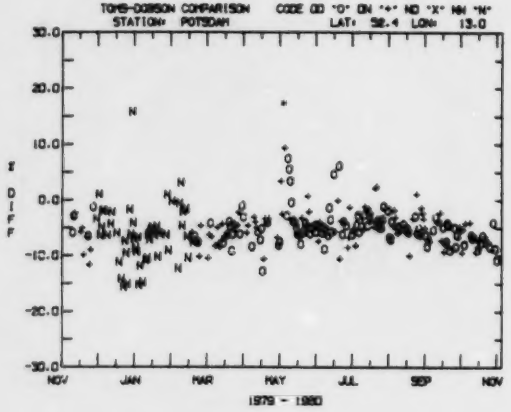
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	303	338.2	48.0	362.7	52.3	-6.48	4.41
OO	63	354.4	53.6	380.4	54.2	-6.79	3.32
ON	147	338.7	46.5	367.5	49.3	-7.42	2.80
NO	7	324.9	30.3	349.7	28.2	-6.94	5.11
NN	86	324.9	43.6	342.6	51.4	-4.85	6.38



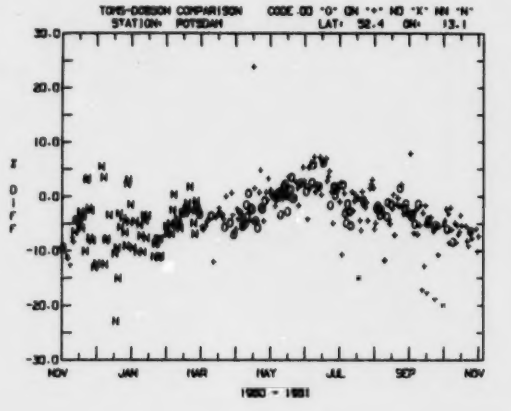
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	311	332.7	45.9	355.5	47.8	-6.53	3.24
OO	78	333.0	40.5	357.4	41.3	-7.01	2.02
ON	140	338.4	45.7	365.3	44.5	-7.60	3.06
NO	8	329.7	37.5	354.4	37.5	-7.15	1.87
NN	85	323.2	50.5	337.5	54.5	-4.26	3.45



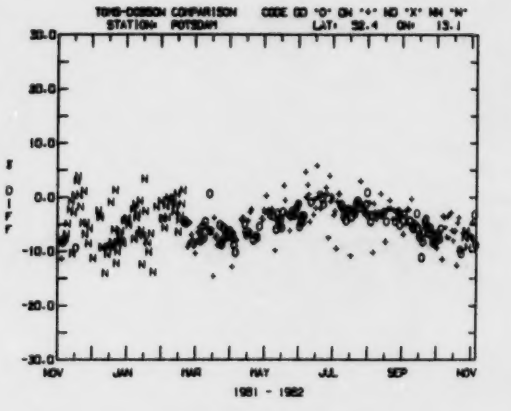
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	331	334.8	50.4	358.1	53.6	-6.60	3.21
OO	91	337.0	40.9	359.1	42.0	-6.31	2.72
ON	137	337.5	55.5	364.9	57.9	-7.68	2.69
NO	8	344.5	85.6	365.5	67.8	-5.96	1.91
NN	85	327.8	49.6	346.7	54.9	-5.39	3.88



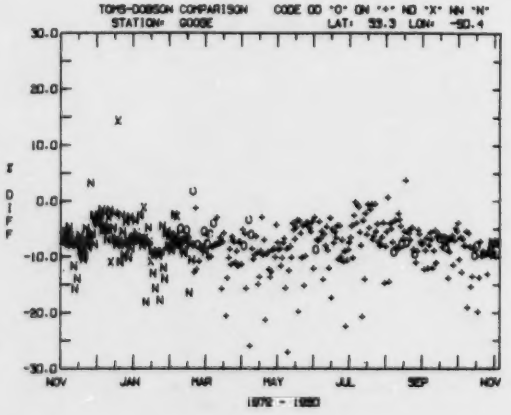
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	275	336.8	47.1	355.8	48.7	-5.20	3.92
OO	108	333.8	44.8	351.6	45.4	-5.00	3.10
ON	116	338.7	53.0	357.6	53.8	-4.88	3.78
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	50	336.7	35.3	360.8	48.7	-6.15	5.48



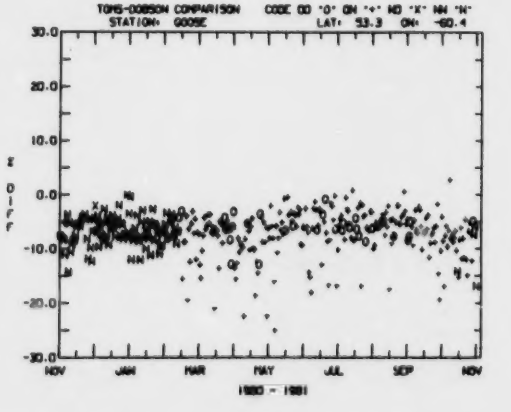
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	300	333.6	46.3	344.8	45.3	-3.26	5.01
OO	77	337.3	37.7	343.4	38.8	-1.84	3.00
ON	152	337.1	45.8	347.0	42.3	-2.80	5.59
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	71	322.1	53.8	341.7	58.2	-5.55	4.74



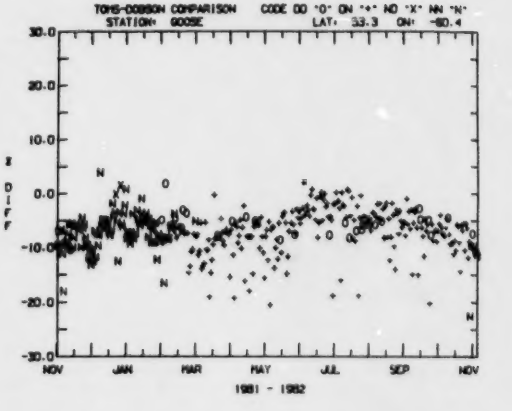
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	329	335.6	51.7	351.9	55.0	-4.62	3.47
OO	119	326.9	43.2	343.2	44.6	-4.80	2.58
ON	129	345.7	54.5	361.2	57.6	-4.27	3.80
NO	1	380.0	0.0	413.0	0.0	-8.04	0.00
NN	80	331.5	58.4	349.3	62.6	-4.90	4.03



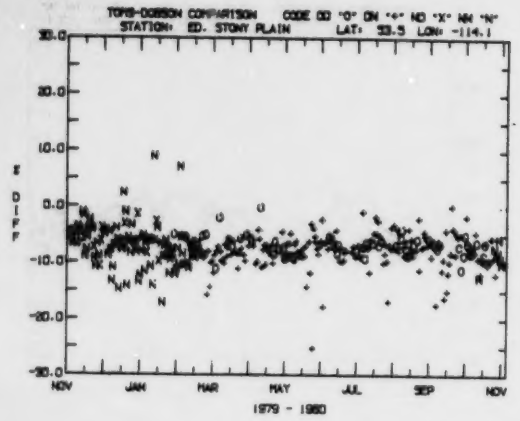
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	380	354.6	51.1	386.3	55.9	-7.81	4.28
OO	23	374.8	64.0	402.1	64.2	-6.85	2.48
ON	229	352.6	47.5	388.4	54.2	-8.29	4.44
NO	8	376.0	37.3	390.8	18.8	-3.48	8.08
NN	100	353.0	55.8	382.1	58.7	-7.34	3.53



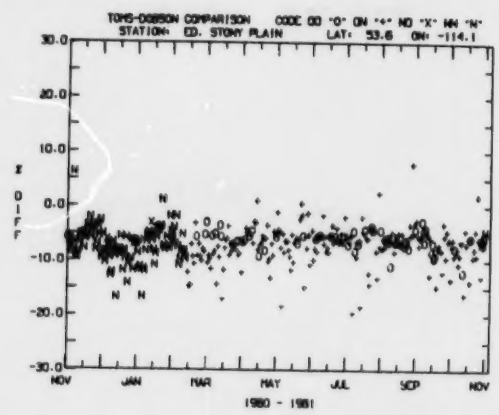
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	385	348.8	47.7	377.8	52.6	-7.14	3.97
OO	41	380.8	43.6	385.2	49.3	-6.13	2.28
ON	224	353.8	50.6	383.7	56.9	-7.42	4.58
NO	3	355.3	0.0	378.0	0.0	-5.75	0.00
NN	97	335.5	38.8	361.1	39.8	-6.85	2.88



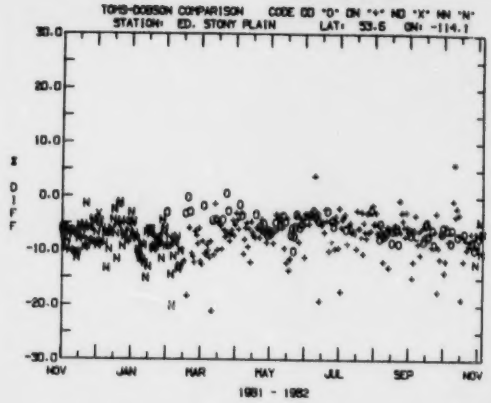
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	388	356.6	57.2	384.0	62.0	-6.90	4.00
OO	33	368.3	58.4	391.1	62.6	-5.63	2.14
ON	228	380.0	50.1	388.4	57.7	-6.94	4.34
NO	2	353.0	0.0	351.0	0.0	0.68	0.00
NN	105	345.6	68.4	372.9	69.8	-7.35	3.48



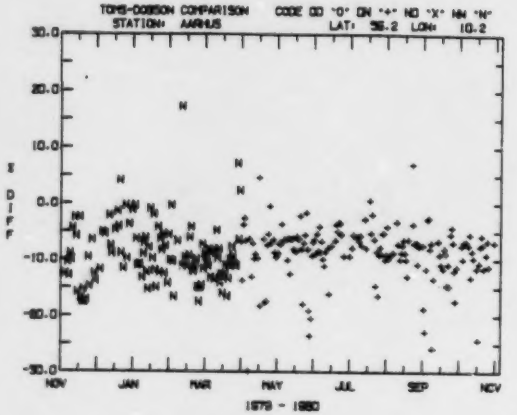
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	348	332.2	47.3	339.4	51.8	-7.40	3.23
OO	64	326.1	54.6	332.0	58.6	-6.80	1.82
ON	177	333.7	44.7	342.9	50.4	-7.84	3.18
NO	12	330.3	32.1	332.5	41.5	-5.97	2.98
NN	95	333.8	48.4	340.0	52.4	-7.15	3.91



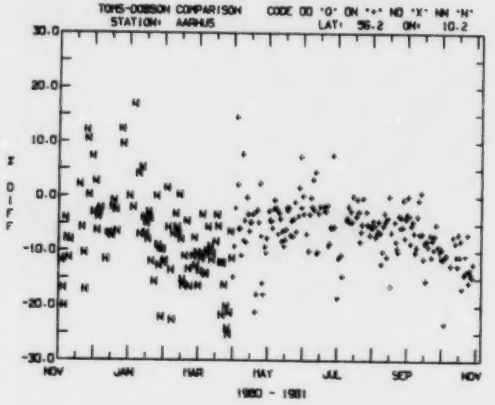
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	352	327.3	49.3	352.4	52.6	-7.00	3.31
OO	60	318.7	51.2	338.6	53.0	-6.14	1.75
ON	199	335.2	46.9	361.9	51.0	-7.22	3.65
NO	3	319.0	0.0	342.7	0.0	-6.93	0.00
NN	100	317.0	50.8	341.3	52.3	-7.09	3.26



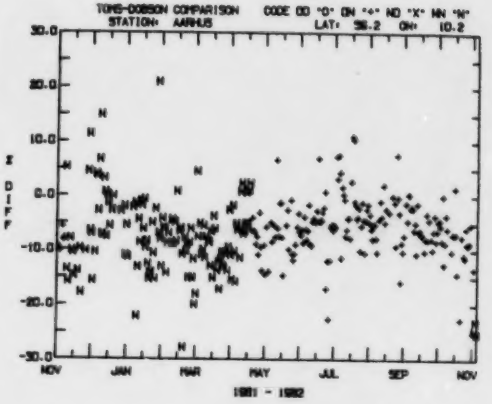
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	365	343.2	55.2	369.8	60.4	-6.99	3.41
OO	75	331.6	56.0	350.5	55.5	-5.44	2.08
ON	184	343.1	55.8	370.3	61.8	-7.08	3.83
NO	3	386.7	0.0	426.3	0.0	-6.58	0.00
NN	103	350.4	52.2	381.4	57.2	-7.99	3.01



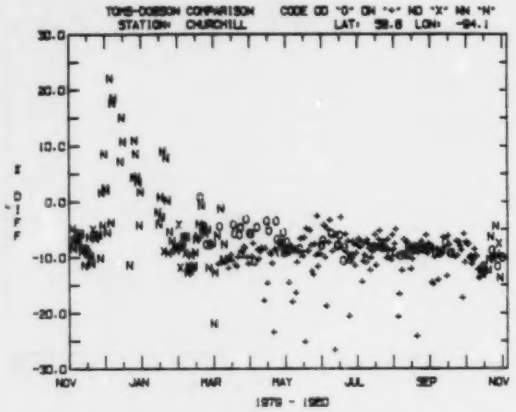
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	277	335.8	48.8	388.3	50.4	-6.83	5.16
OO	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	164	335.1	46.8	387.4	51.7	-6.72	4.98
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	113	336.8	51.7	388.5	48.7	-6.88	5.43



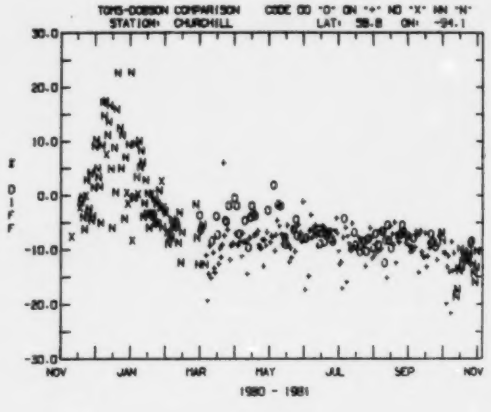
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	283	333.8	45.9	359.1	51.2	-6.85	6.37
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	184	332.0	42.5	354.7	43.7	-6.35	5.22
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	99	337.1	54.3	367.2	62.3	-7.78	8.03



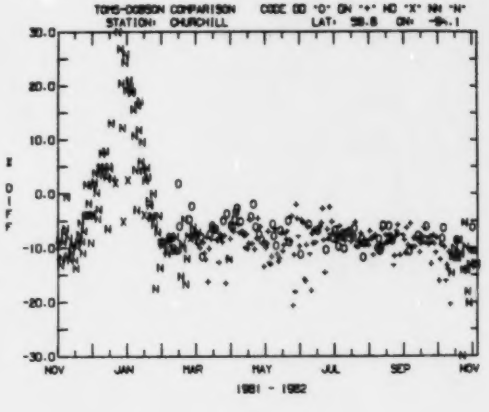
CODE	NUM	TOMS	STD	DOBSON	STD	Σ DIFF	STD
ALL	310	338.0	53.8	363.2	58.3	-6.50	6.23
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	176	338.8	42.0	345.8	46.2	-5.85	5.08
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	134	335.0	62.9	384.6	65.3	-7.62	7.34



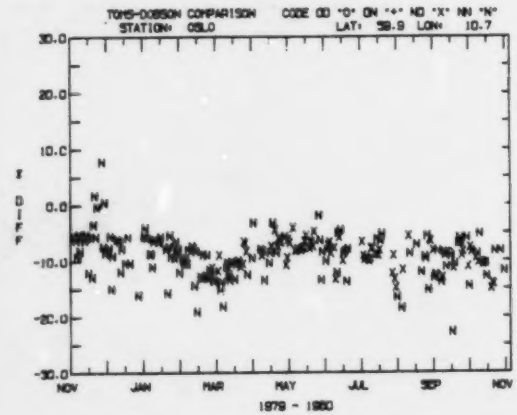
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	324	358.1	56.6	388.4	61.2	-7.87	5.58
OO	66	357.8	66.1	387.0	65.9	-7.66	2.35
ON	180	352.6	53.2	382.0	60.8	-8.89	3.91
NO	10	388.8	29.4	356.6	33.7	-7.69	2.34
NN	68	371.6	55.2	390.2	60.5	-4.38	7.97



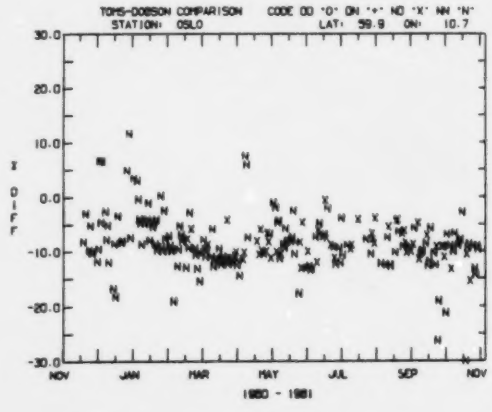
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	333	357.3	60.9	381.4	65.5	-6.16	6.66
OO	67	366.8	65.9	391.3	65.2	-6.52	2.71
ON	158	355.0	61.1	391.2	66.0	-9.30	3.43
NO	15	364.5	55.2	393.3	61.5	-2.00	4.28
NN	95	350.2	56.4	356.5	59.4	-1.40	9.35



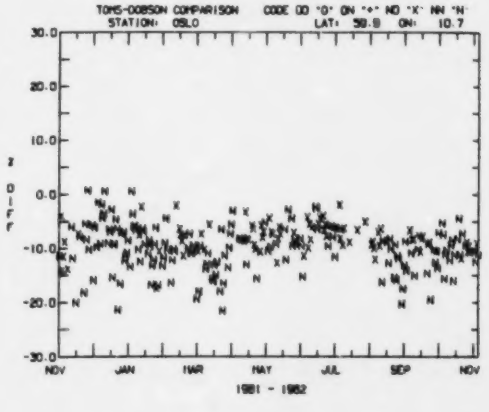
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	359	365.4	60.4	391.8	62.3	-6.63	7.53
OO	85	371.7	70.1	399.7	70.2	-7.20	2.50
ON	160	360.7	58.1	387.0	63.0	-8.18	3.10
NO	10	408.2	58.3	432.6	86.9	-5.86	4.73
NN	124	364.9	57.3	377.6	53.5	-3.10	11.26



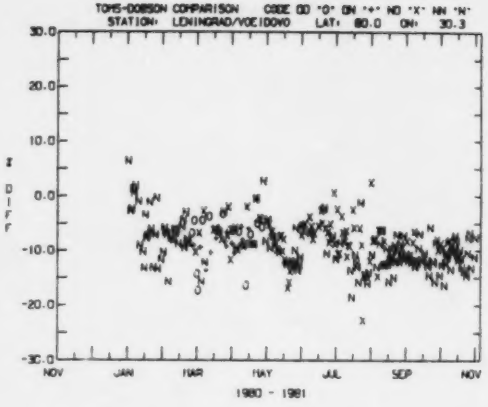
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	217	331.0	46.9	384.8	50.8	-9.05	3.80
OO	2	303.5	0.0	338.0	0.0	-9.52	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	77	338.7	45.4	371.7	45.6	-8.81	2.43
NN	138	327.1	47.6	381.4	53.3	-9.17	4.13



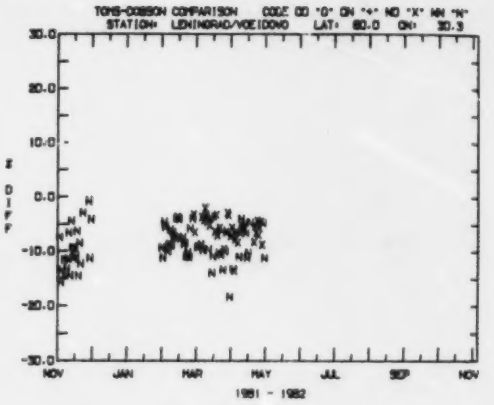
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	217	332.0	48.8	383.1	54.0	-8.49	4.92
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	88	341.8	54.2	374.6	58.6	-8.75	2.70
NN	151	327.7	47.0	388.1	50.8	-8.38	5.63



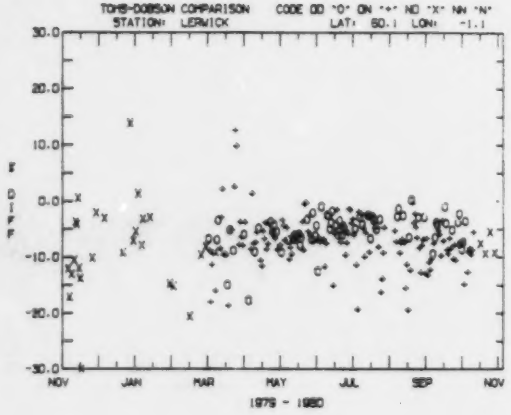
CODE	NUM	TOMS	STD	DOBSON	STD	Z DIFF	STD
ALL	246	339.6	56.7	375.2	62.3	-9.42	4.06
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	82	344.3	57.9	373.7	60.2	-7.88	2.71
NN	164	337.5	56.2	376.0	63.5	-10.15	4.42



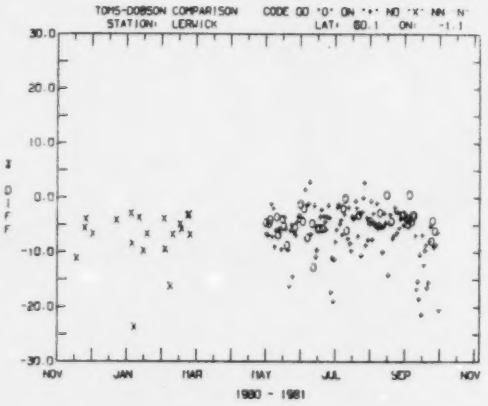
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	265	335.0	51.0	366.1	49.7	-8.69	4.11
OO	14	374.9	49.6	405.1	44.2	-7.67	4.70
ON	16	377.6	42.1	411.7	38.6	-8.45	2.26
NO	92	332.0	45.8	360.2	45.9	-7.92	3.78
NN	143	328.2	51.6	361.0	49.7	-9.30	4.34



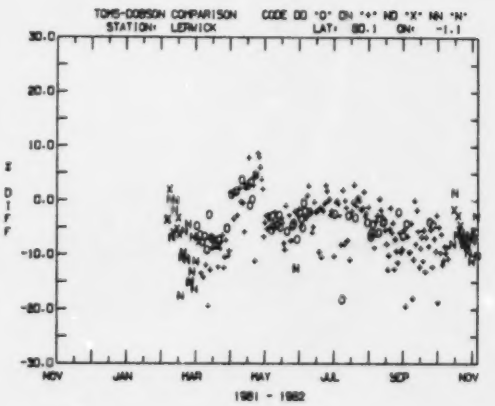
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	103	351.0	52.9	381.1	53.6	-7.88	3.50
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	30	371.5	43.0	394.8	41.2	-6.05	2.54
NN	73	356.8	58.2	389.6	71.0	-8.63	3.57



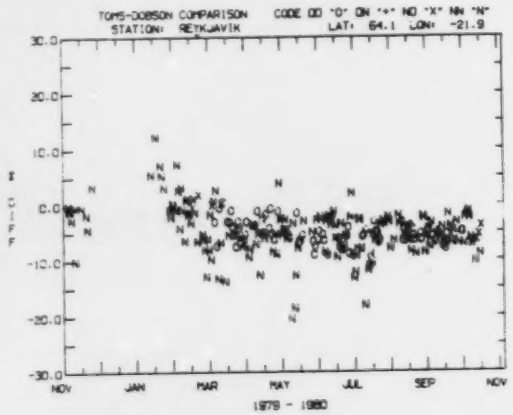
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	233	338.8	43.7	363.7	43.8	-6.87	4.83
OO	71	358.9	38.2	379.2	43.2	-5.34	3.01
ON	132	344.8	44.8	371.7	43.2	-7.33	4.73
NO	30	310.2	37.8	338.4	38.2	-8.43	7.88
NN	0	0.0	0.0	0.0	0.0	0.0	0.0



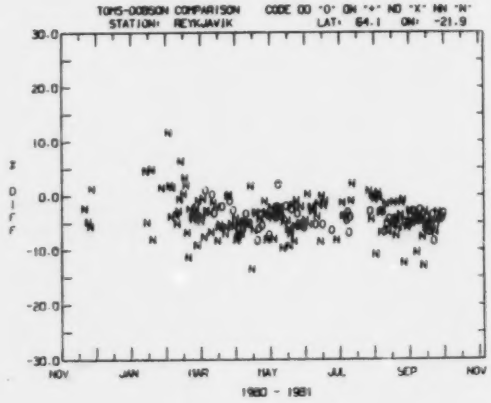
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	173	332.9	37.1	354.4	39.0	-6.05	4.50
OO	36	333.8	35.1	349.2	38.4	-4.39	2.55
ON	117	329.3	34.8	351.7	35.6	-6.34	4.76
NO	20	352.3	48.3	378.5	44.4	-7.33	5.07
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



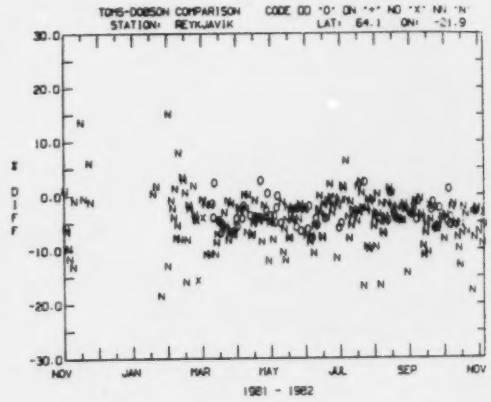
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	262	348.3	51.8	367.4	54.6	-5.14	4.87
OO	51	365.7	51.3	381.0	54.8	-4.00	3.77
ON	184	347.2	46.5	365.5	48.1	-4.85	5.30
NO	13	348.5	78.7	364.7	84.7	-4.07	2.45
NN	34	327.4	57.8	357.2	64.2	-8.18	4.55



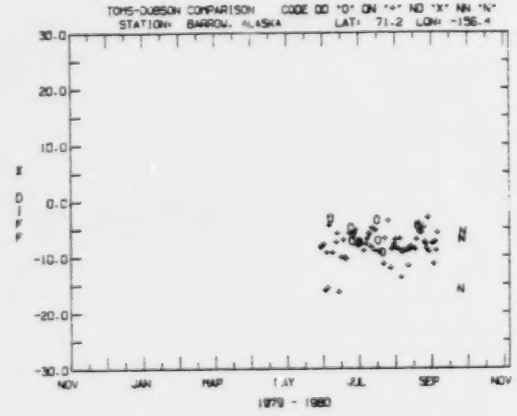
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	236	348.4	46.2	366.0	52.0	-4.68	4.06
OO	81	355.3	46.2	374.6	47.2	-5.18	2.07
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	10	333.6	88.3	341.1	82.3	-2.67	3.56
NN	145	345.6	45.6	362.9	51.5	-4.54	4.82



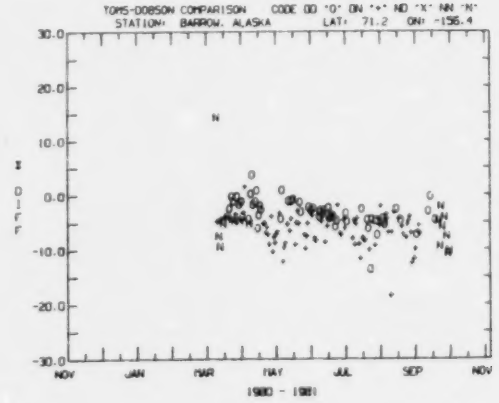
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	192	353.5	54.2	367.5	56.0	-3.79	3.35
OO	54	350.0	58.2	364.2	57.4	-4.05	2.01
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	138	354.9	52.7	368.7	55.6	-3.69	3.76



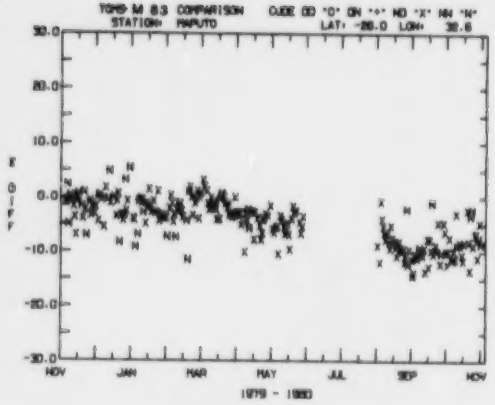
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	264	355.1	59.7	370.2	55.0	-4.06	4.29
OO	52	353.8	55.9	376.7	55.4	-3.52	2.42
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	6	363.3	47.8	383.3	43.9	-5.28	5.28
NN	206	352.7	53.3	368.1	55.2	-4.16	4.62



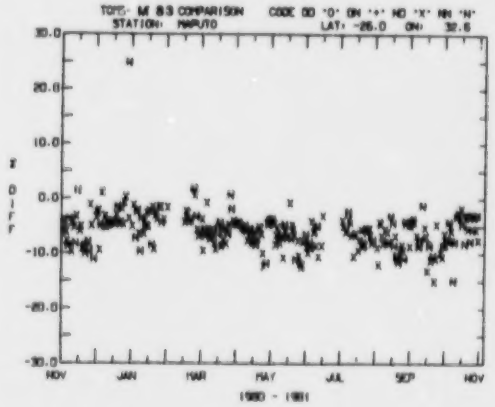
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	79	313.3	24.4	341.5	27.8	-8.05	2.78
OO	9	314.0	25.4	334.7	21.5	-6.12	2.13
ON	67	313.6	24.9	342.5	28.8	-8.24	2.64
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	3	304.3	0.0	337.7	0.0	-9.44	0.0



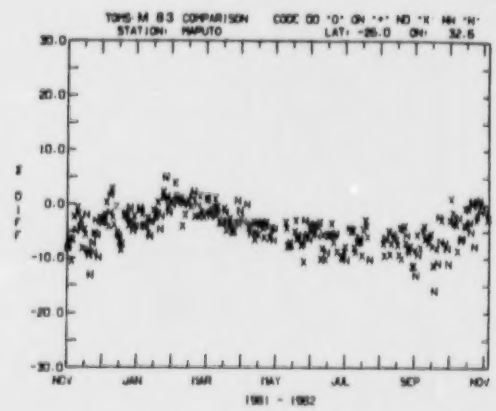
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	156	354.3	50.9	373.3	49.8	-5.17	3.52
OO	56	356.4	47.8	367.5	44.7	-3.16	2.55
ON	83	348.0	49.9	372.0	49.5	-6.55	2.87
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	17	378.5	60.8	398.6	61.2	-5.05	5.57



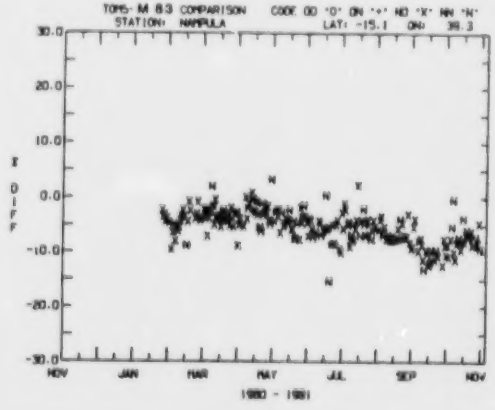
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	235	271.3	17.2	284.8	20.1	-4.55	4.07
OO	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	189	268.0	15.2	282.1	19.4	-4.61	2.91
NN	46	285.0	18.1	295.8	19.2	-3.49	4.50



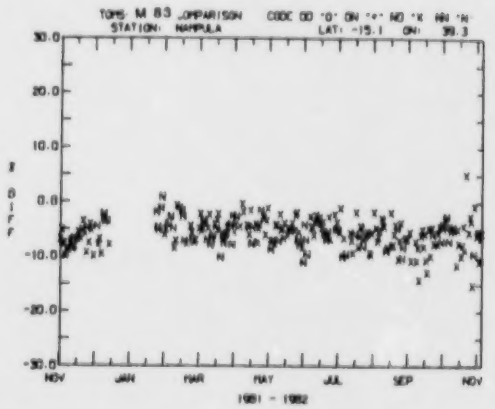
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	271	278.1	19.2	283.3	21.4	-5.86	3.44
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	189	273.6	16.8	280.5	19.4	-5.81	2.81
NN	82	281.7	23.0	289.7	24.4	-5.95	4.58



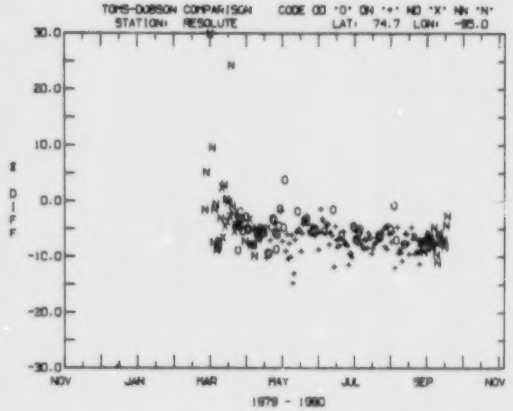
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	283	273.9	12.7	288.5	16.3	-4.36	3.35
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	191	271.6	11.5	284.4	15.2	-4.45	3.09
NN	92	278.7	13.9	291.0	17.6	-4.16	3.84



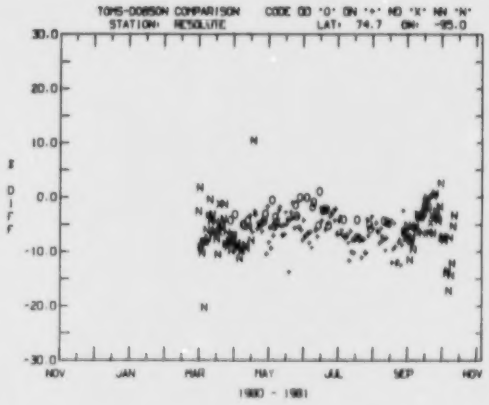
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	221	259.0	11.6	273.1	16.8	-5.36	2.98
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	183	258.8	10.4	273.3	16.5	-5.54	2.85
NN	38	259.8	14.4	272.5	17.8	-4.98	3.34



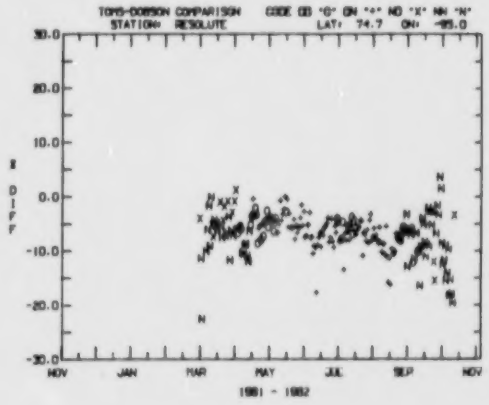
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	250	260.5	10.8	275.3	14.6	-5.63	2.62
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	181	262.4	10.6	277.2	15.1	-5.61	2.65
NN	68	255.7	9.9	270.2	11.7	-5.69	2.53



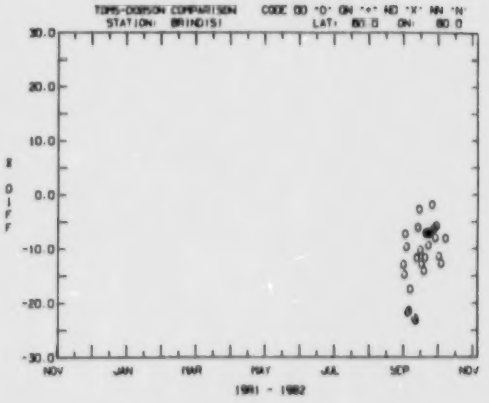
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	198	381.0	75.3	402.9	72.7	-5.68	4.59
OO	42	403.9	82.5	424.8	80.9	-4.80	2.53
ON	102	348.5	41.9	375.6	42.1	-7.11	2.32
NO	8	488.9	24.4	518.6	25.6	-3.82	2.98
NN	47	408.0	****	422.6	****	-3.58	7.85



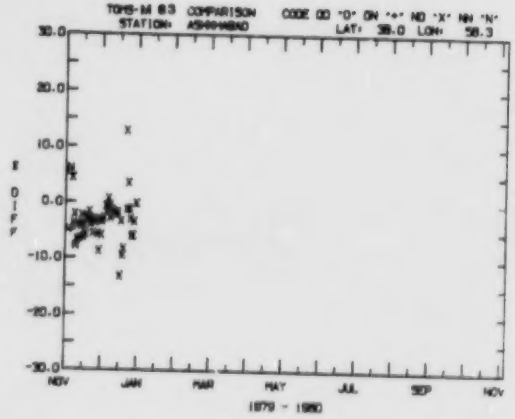
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	223	362.6	72.7	385.1	77.1	-5.85	3.48
OO	33	371.7	54.7	385.7	58.6	-3.61	2.07
ON	108	353.4	52.3	376.6	51.3	-6.34	2.68
NO	4	376.0	0.0	391.0	0.0	-3.80	0.00
NN	78	370.9	98.8	396.4	****	-6.26	4.50



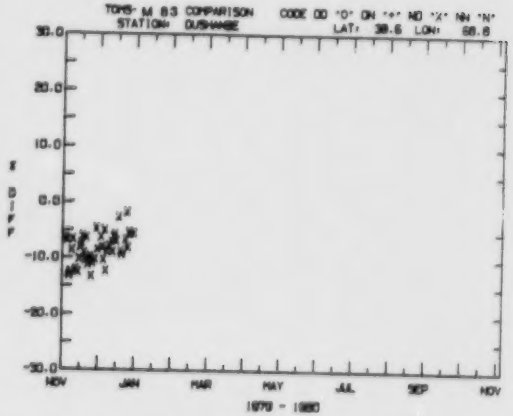
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	222	357.8	72.5	383.5	72.7	-6.87	3.80
OO	38	385.9	73.0	408.5	74.5	-5.68	2.10
ON	105	353.3	50.3	378.2	46.2	-6.81	3.04
NO	14	426.3	98.2	443.5	90.6	-4.53	4.58
NN	64	333.4	83.0	363.8	81.4	-8.18	4.97



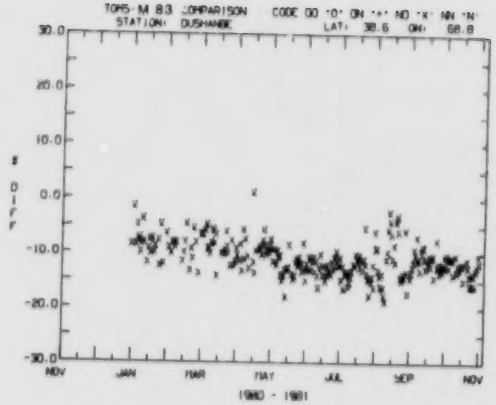
CODE	NUM	TOMS	STD	DOBSON	STD	% DIFF	STD
ALL	88	278.7	17.9	314.0	13.0	-11.15	5.81
OO	88	278.7	17.9	314.0	13.0	-11.15	5.81
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	0	0.0	0.0	0.0	0.0	0.00	0.00
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



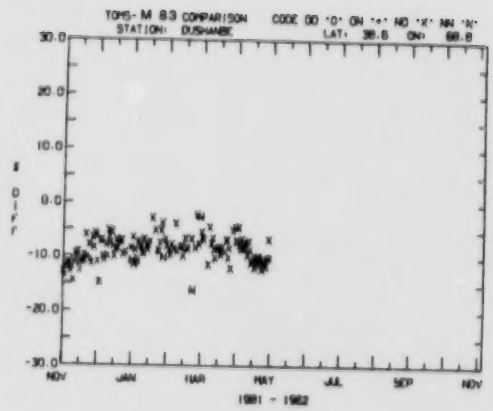
CODE	NUM	TOPS	STD	M 83	STD	E DIFF	STD
ALL	50	288.5	28.6	301.2	30.1	-3.09	4.06
00	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
ND	47	290.7	28.3	332.6	30.4	-3.14	3.90
NN	3	270.7	0.0	270.7	0.0	-2.23	0.0



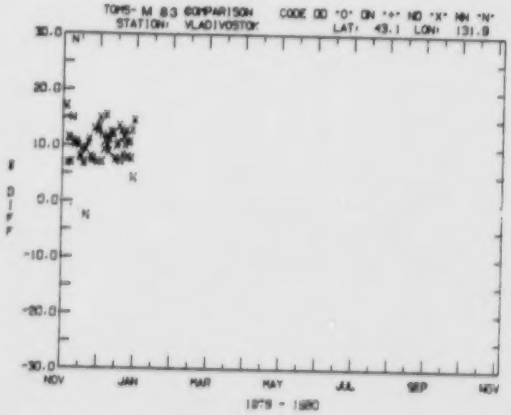
CODE	NUM	TOPS	STD	M 83	STD	E DIFF	STD
ALL	44	288.8	25.5	313.5	25.1	-6.22	2.70
00	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
ND	41	285.7	25.2	311.5	24.8	-7.97	2.58
NN	3	298.7	0.0	338.7	0.0	-11.66	0.0



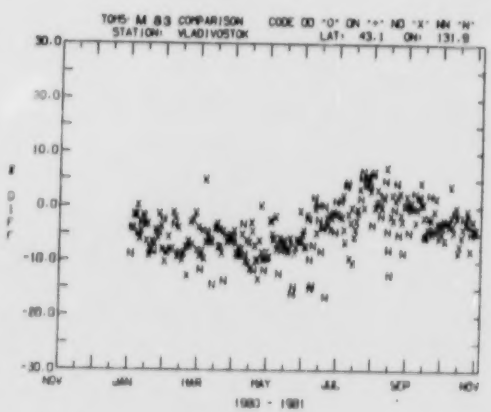
CODE	NUM	TOPS	STD	M 83	STD	E DIFF	STD
ALL	259	332.3	29.7	343.3	29.4	-10.94	3.15
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
ND	259	332.3	29.7	343.3	29.4	-10.94	3.15
NN	0	0.0	0.0	0.0	0.0	0.00	0.00



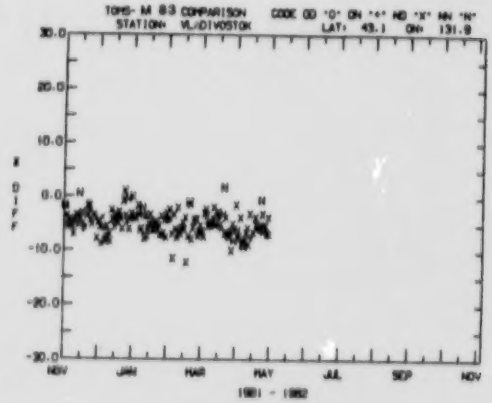
CODE	NUM	TOPS	STD	M 83	STD	E DIFF	STD
ALL	145	324.1	40.3	355.5	39.9	-8.88	2.42
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
ND	139	323.8	40.6	355.0	40.2	-8.84	2.31
NN	6	330.8	34.1	367.8	32.8	-9.80	4.50



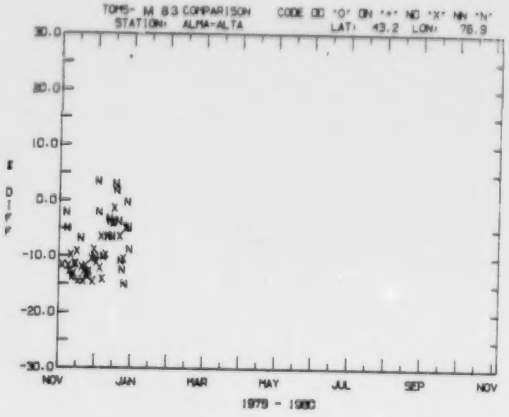
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	57	341.7	33.8	310.2	14.3	10.40	1.08
OO	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	50	345.4	31.0	313.1	28.1	10.40	2.48
NN	7	315.6	49.4	288.8	38.2	10.34	3.84



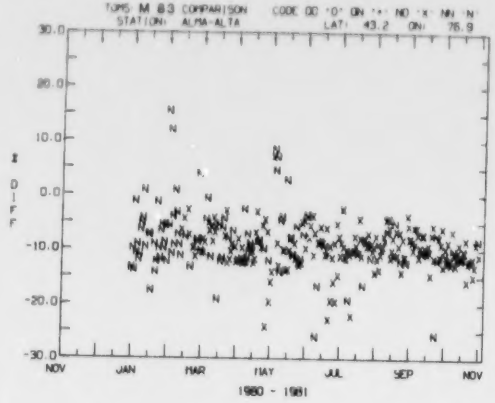
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	291	362.4	52.2	378.9	60.9	-4.04	4.44
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	224	366.4	52.9	382.9	60.7	-4.06	3.76
NN	67	349.2	47.9	365.6	59.0	-3.96	6.24



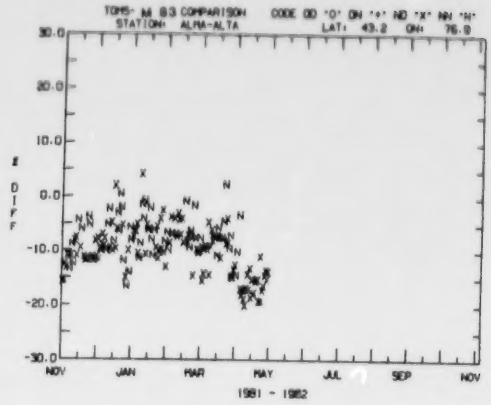
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	178	382.6	42.7	413.1	46.3	-4.66	2.19
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	161	393.9	43.4	415.3	46.9	-5.15	2.00
NN	17	350.1	33.9	382.4	34.6	-9.13	3.00



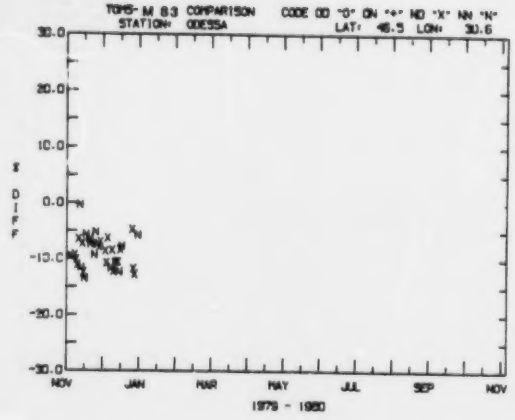
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	50	294.6	30.8	323.9	24.1	-8.57	4.90
OO	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	30	281.5	30.1	317.4	27.5	-10.80	3.27
NN	20	314.3	18.6	333.8	13.1	-5.22	5.09



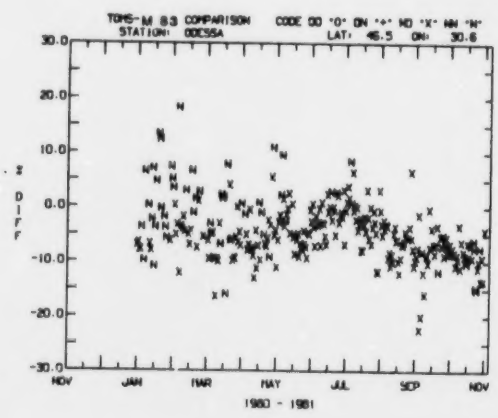
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	291	320.3	36.2	356.0	39.6	-9.12	4.83
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	186	311.0	33.6	347.5	36.6	-9.64	3.71
NN	105	336.7	35.0	371.0	40.5	-8.18	6.26



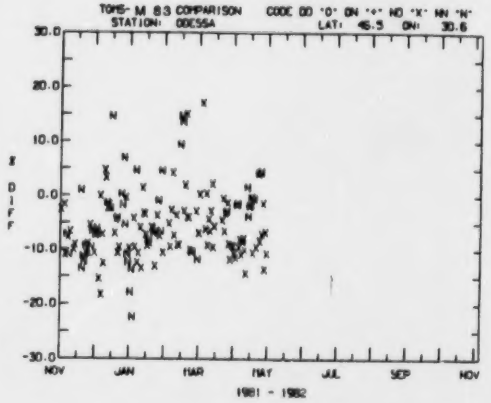
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	170	334.9	41.1	373.4	45.6	-9.40	4.70
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	114	332.6	41.8	375.5	47.1	-10.51	4.58
NN	56	339.5	39.5	369.1	42.6	-7.14	4.10



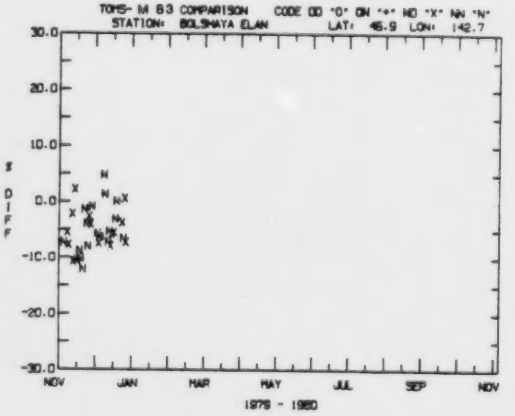
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	33	303.8	26.5	333.7	33.1	-8.79	2.90
OO	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	19	304.2	30.3	335.5	33.6	-9.23	2.31
NN	14	303.3	27.0	331.2	33.7	-8.20	3.55



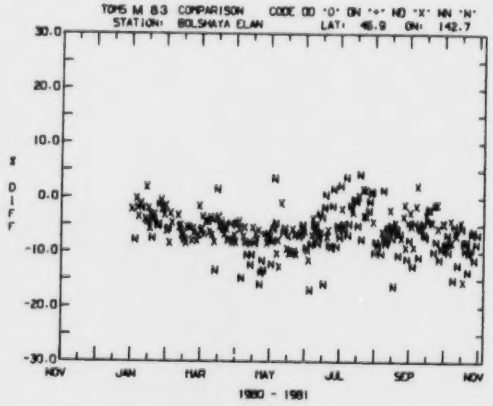
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	280	339.1	45.3	355.1	44.5	-4.51	5.36
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	225	332.4	41.6	351.6	43.6	-5.42	4.31
NN	55	366.4	49.6	369.3	45.5	-0.77	7.40



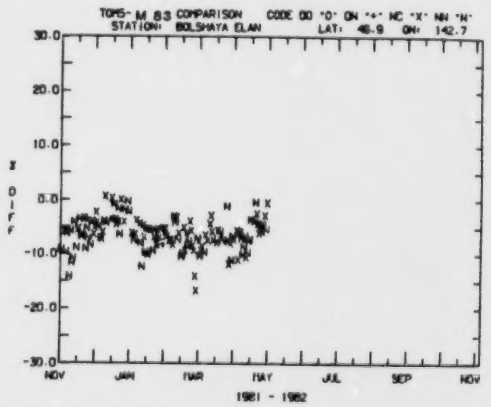
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	147	349.0	46.7	369.3	44.1	-5.47	6.50
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	99	352.4	45.2	376.3	46.5	-6.28	5.51
NN	48	341.9	48.4	354.6	34.9	-3.77	7.86



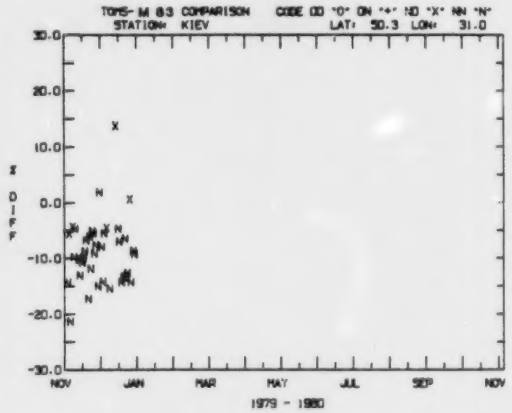
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	32	346.6	30.5	365.4	32.6	-4.85	4.03
OO	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	14	342.5	27.5	360.1	24.8	-4.82	3.52
NN	18	348.8	33.1	369.4	37.8	-5.05	4.48



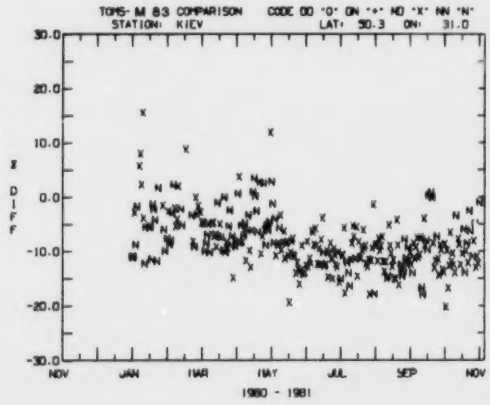
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	260	376.8	62.2	401.3	66.0	-6.05	3.72
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	133	392.3	64.4	414.3	69.2	-5.21	2.96
NN	127	380.5	55.6	387.6	59.8	-6.92	4.21



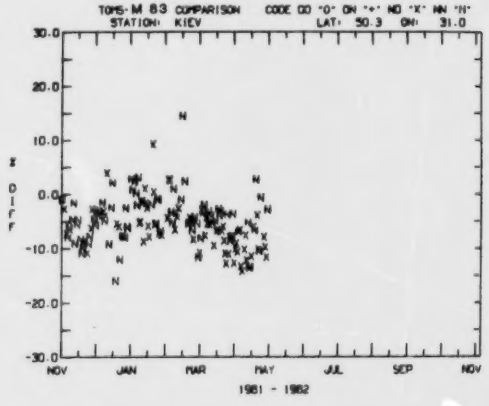
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	144	422.7	54.0	451.6	59.6	-6.33	2.94
OO	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	74	436.8	53.4	466.2	62.3	-6.15	2.86
NN	70	407.8	51.0	436.2	52.8	-6.51	3.02



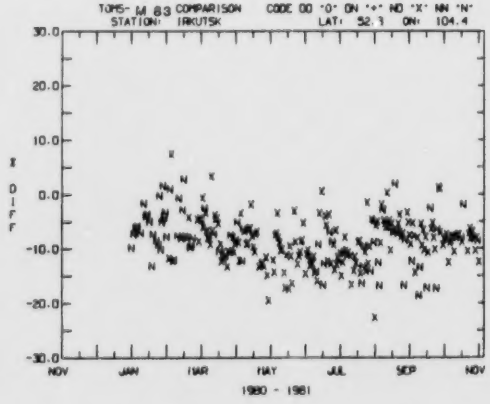
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	38	299.0	29.5	326.7	34.2	-8.74	6.02
00	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	5	307.2	52.2	305.0	33.5	0.02	8.05
NN	34	297.8	25.7	332.0	33.5	-10.02	4.53



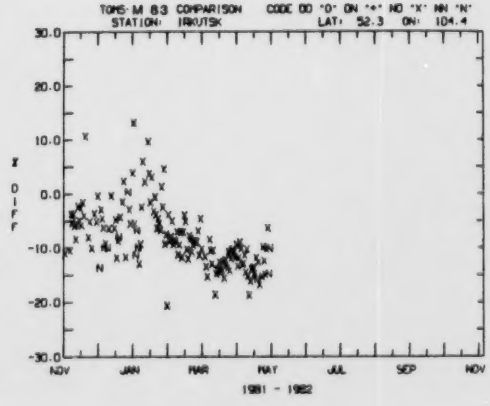
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	282	339.3	44.8	369.4	42.4	-8.28	5.18
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	186	331.0	41.0	363.5	40.7	-9.02	5.08
NN	96	355.4	47.6	380.9	43.7	-6.87	5.10



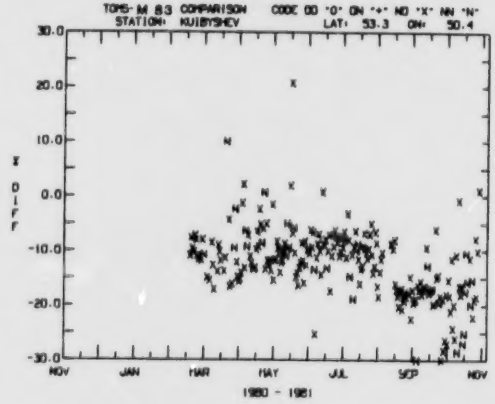
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	146	350.4	45.0	389.8	45.1	-5.31	4.53
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	70	353.6	42.1	376.7	44.3	-6.13	4.32
NN	76	347.4	47.6	383.4	45.2	-4.55	4.61



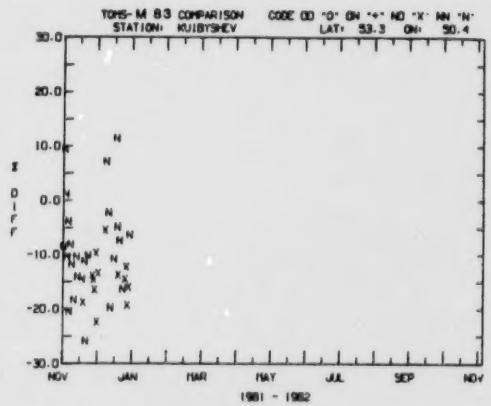
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	258	360.2	51.6	395.2	53.0	-8.50	4.36
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	187	353.5	45.7	388.8	49.5	-8.66	4.11
NN	71	377.8	61.5	411.7	58.4	-8.06	4.94



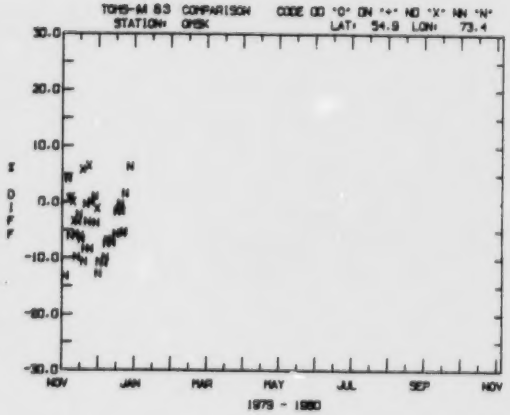
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	153	378.1	56.3	414.9	68.5	-8.13	5.73
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	141	380.3	56.2	416.7	68.6	-7.86	5.82
NN	12	352.0	53.0	394.0	66.0	-10.02	4.19



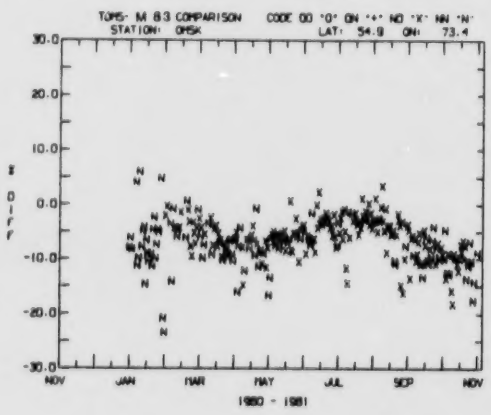
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	230	333.8	52.5	379.9	49.6	-12.32	6.56
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	199	332.6	52.0	378.2	50.5	-12.23	6.23
NN	31	341.7	55.9	390.8	42.6	-12.89	8.50



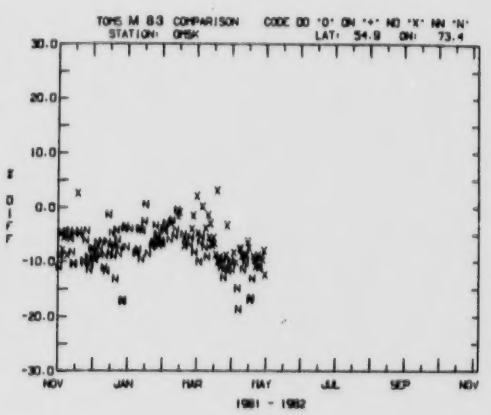
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	37	289.7	23.1	324.8	15.4	-10.73	8.33
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	13	281.3	11.4	329.5	14.9	-14.67	4.30
NN	24	294.2	25.8	322.2	15.3	-8.60	9.25



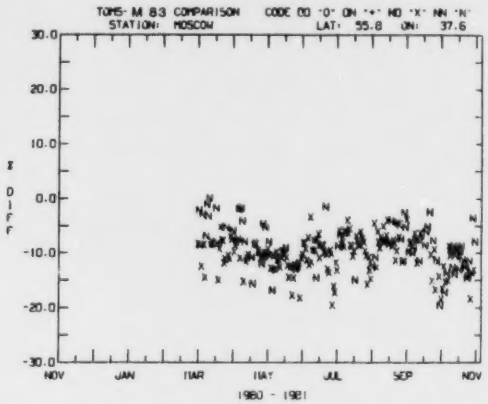
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	41	297.0	37.2	308.7	39.2	-3.88	5.10
00	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	8	289.9	28.5	288.9	28.8	0.46	4.17
NN	33	303.6	36.4	319.6	35.2	-4.93	4.79



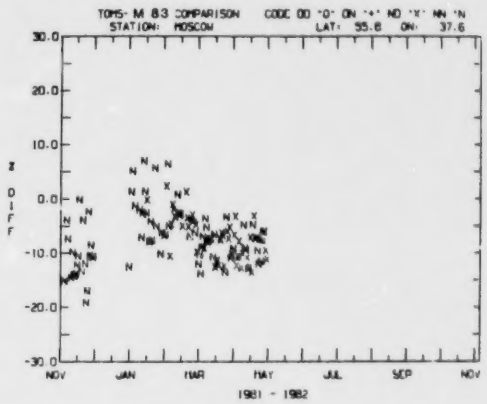
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	283	339.7	47.7	362.8	47.5	-6.52	4.12
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	186	336.9	44.7	357.2	46.0	-5.76	3.58
NN	97	345.0	53.0	373.7	48.7	-7.87	4.68



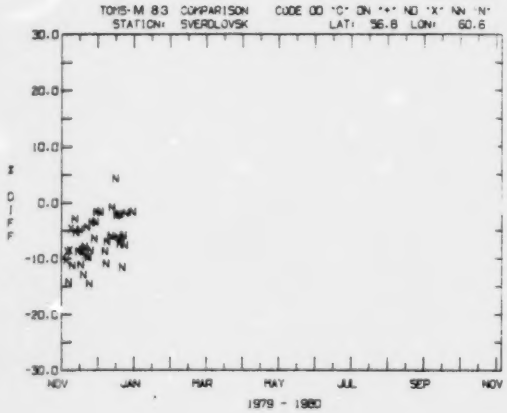
CODE	NUM	TOMS	STD	M 83	STD	Z DIFF	STD
ALL	152	353.6	67.2	380.7	67.6	-7.32	3.72
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	49	377.2	62.0	401.4	31.2	-6.21	3.72
NN	103	342.4	66.9	370.8	68.5	-7.84	3.63



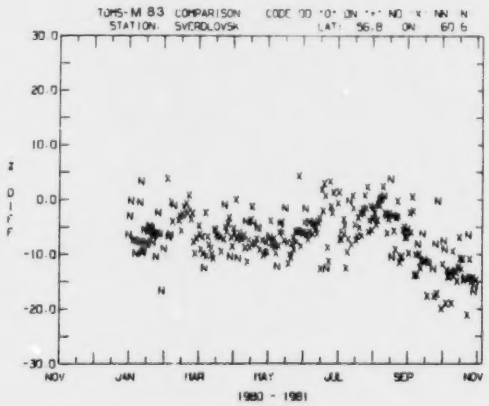
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	232	330.7	48.2	365.5	53.1	-9.60	3.67
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	157	331.5	44.5	368.3	51.4	-10.10	3.22
NN	75	329.1	52.0	359.5	56.3	-8.57	4.32



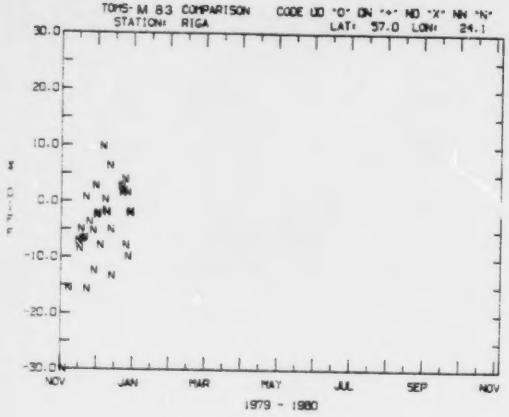
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	124	360.6	55.1	387.8	56.3	-7.18	4.87
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	48	374.8	45.1	403.8	49.9	-7.22	4.01
NN	76	351.6	59.1	377.7	58.0	-7.16	5.37



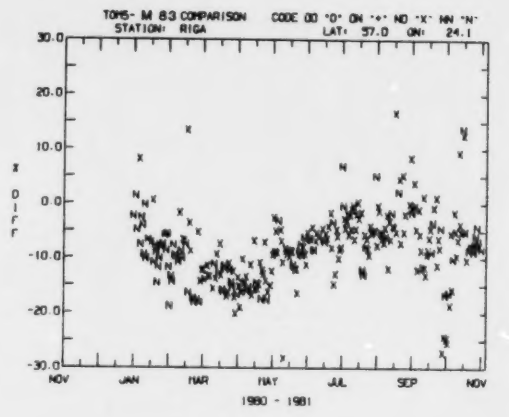
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	40	288.4	47.6	308.6	46.0	-6.62	4.05
00	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	4	252.5	0.0	268.0	0.0	-6.01	0.0
NN	36	291.3	48.4	311.1	46.3	-6.47	4.19



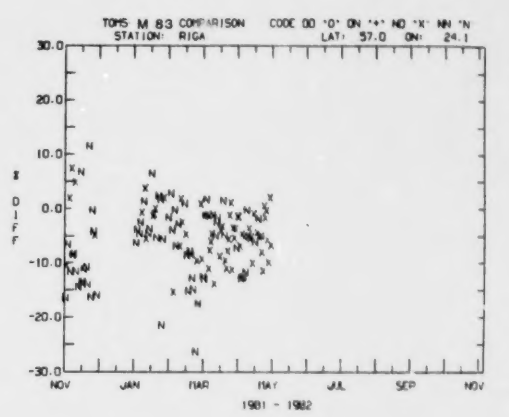
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	275	335.6	52.1	358.6	53.4	-6.63	4.66
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	210	337.8	53.2	360.9	54.7	-6.63	4.71
NN	65	328.5	48.1	351.0	48.8	-6.63	4.53



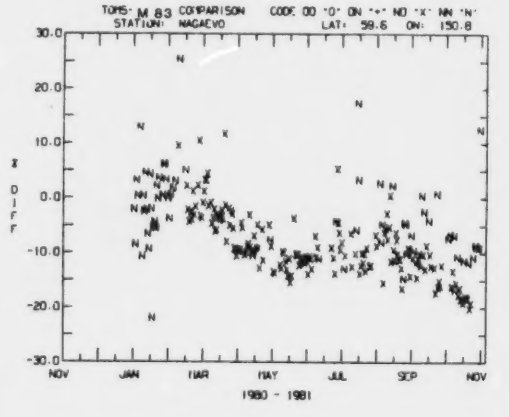
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	32	309.9	57.8	324.0	51.1	-4.44	8.05
00	0	0.0	0.0	0.0	0.0	0.0	0.0
ON	0	0.0	0.0	0.0	0.0	0.0	0.0
NO	0	0.0	0.0	0.0	0.0	0.0	0.0
NN	32	309.9	57.8	324.0	51.1	-4.44	8.05



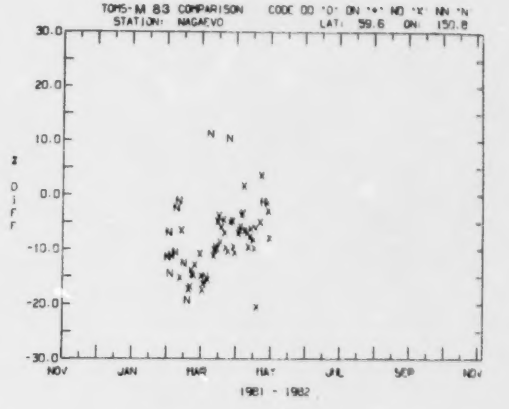
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	270	338.1	49.1	370.0	62.9	-8.09	6.51
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	182	335.0	47.8	364.8	59.3	-7.69	6.74
NN	88	344.6	51.4	380.8	68.9	-8.93	5.94



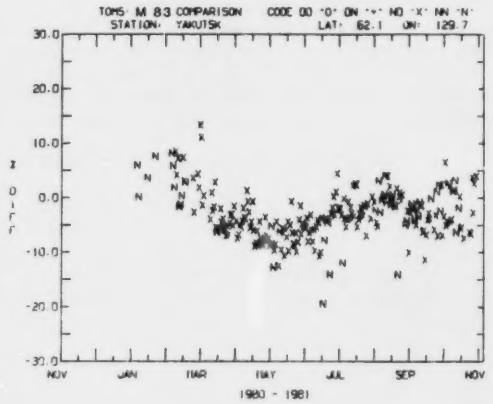
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	125	357.8	55.3	379.7	59.3	-5.54	6.14
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	61	364.3	48.2	382.5	57.7	-4.38	4.70
NN	64	351.7	61.1	377.1	61.1	-6.65	7.12



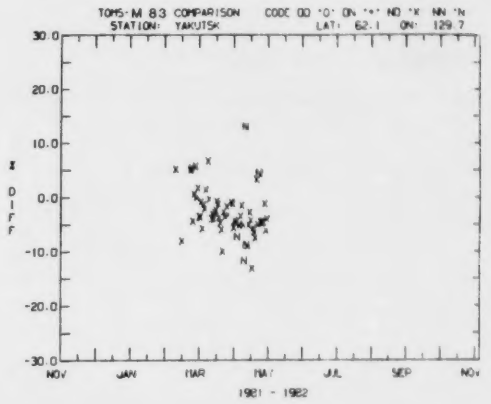
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	234	378.0	68.6	406.7	64.1	-7.05	6.94
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	168	378.6	69.6	413.9	63.8	-8.66	5.77
NN	66	376.6	66.6	388.5	61.8	-2.93	7.94



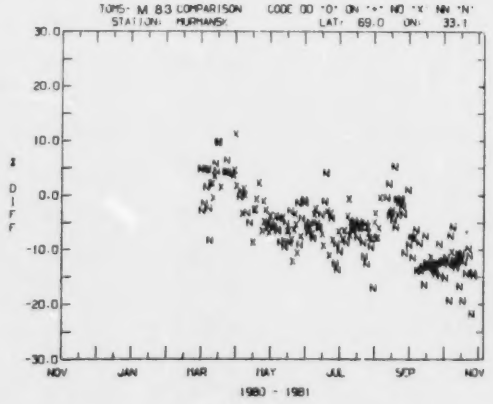
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	63	452.5	45.6	495.7	47.9	-8.45	6.24
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	50	456.5	45.1	502.6	47.9	-8.96	5.12
NN	13	436.8	45.8	468.9	39.2	-6.49	9.44



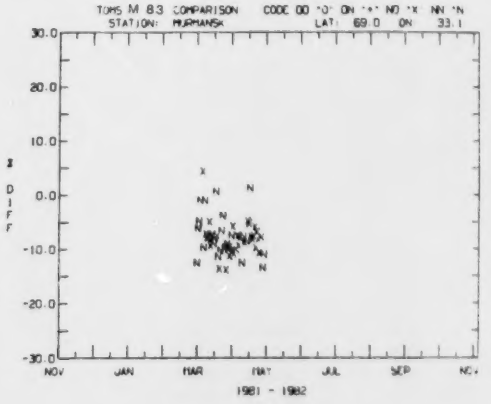
CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	242	362.9	65.5	374.5	66.2	-3.08	4.53
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	191	367.0	64.8	380.0	66.0	-3.42	4.17
NN	51	347.7	66.6	353.9	63.7	-1.81	5.53



CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	63	463.1	39.0	476.0	37.0	-2.73	4.53
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	58	463.9	40.3	476.7	36.4	-2.79	3.82
NN	5	454.4	17.3	467.0	47.5	-2.01	10.42



CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	199	330.9	57.5	350.5	49.5	-5.94	5.81
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	80	349.3	59.4	365.1	55.7	-4.55	4.32
NN	119	318.6	53.0	340.7	42.3	-6.87	6.48



CODE	NUM	TOMS	STD	M 83	STD	% DIFF	STD
ALL	54	400.2	38.5	433.2	34.8	-7.72	3.63
00	0	0.0	0.0	0.0	0.0	0.00	0.00
ON	0	0.0	0.0	0.0	0.0	0.00	0.00
NO	29	405.9	33.3	440.1	29.2	-7.87	3.25
NN	25	393.6	43.5	425.2	39.3	-7.56	4.09

STATIONS

REGION	COUNTRY/PAYS	STATION	WMO NO.	LATITUDE DEG.MIN.	LONGITUDE DEG.MIN.	ELEVATION METRES	AEROLOGICAL STATION /AEROLOGIQUE	
I	ALGERIA/ALGERIE	COLOMB-BECHAR	60571	31.38N	02.15W	806	SAME	NEME
I	ALGERIA/ALGERIE	TAMANRASSET	60680	22.48N	05.31E	1395	SAME	NEME
I	CONGO	BUNIA RUAMPARA	64076	01.30N	30.13E	1239	ENTEBBE AIRPORT	63705
I	CONGO	LEOPOLDVILLE	---	4.18S	15.33E	450	SAME	NEME
I	FRANCE	ILE NOUVELLE AMSTERDAM	61996	37.50S	77.34E	27	SAME	NEME
I	FRANCE	PORT AUX FRANCAIS (KERGUELEN)	61998	49.21S	70.17E	14	NEW AMSTERDAM	61996
I	KENYA	NAIROBI/DAGORETTI	63741	01.16S	36.48E	1710	SAME	NEME
I	MOROCCO/MAROC	CASABLANCA	60155	33.34N	7.40W	49	SAME	NEME
I	S. AFRICA/AFRIQUE DE S.	PRETORIA	68262	25.45S	28.14E	1369	SAME	NEME
I	A.R.E./R.A.E.	CAIRO	---	30.05N	31.17E	35	HELWAN	62378
I	A.R.E./R.A.E.	CAIRO UNIVERSITY	---	30.02N	31.13E	35	HELWAN	62378
I	MOZAMBIQUE/	MAPUTO	67341	25.58S	32.36E	70		
I	MOZAMBIQUE/	NAMPULA	67237	15.06S	39.17E	440	SAME	NEME
I	U.K./R.U.	MAHE,SEYCHELLES		4.41S	55.32E	4		
I	U.K./R.U.	ST. HELENA		15.56S	5.39W	436	WIDEAWAKE FIELD	61902
II	CHINA/CHINE	KUNMING	56778	25.01N	102.41E	1917	SAME	NEME
II	CHINA/CHINE	SHIANGHER		39.46N	117.00E	13	BEIJING	54511
II	C.D.R./R.D.A.	R/V AK. SHIRSHOV		VARIABLE			SAME	NEME
II	TAIWAN	TAIPEI	46692	25.02N	121.31E	22	SAME	NEME
II	INDIA/INDE	AHMEDABAD	42647	23.01N	72.39E	55	SAME	NEME
II	INDIA/INDE	BANARAS	---	25.00N	83.00E		ALLAHABAD/BAMHRAL	42475
II	INDIA/INDE	BOMBAY	43003	19.07N	72.51E	14S	AME	SAME
II	INDIA/INDE	DUM DUM	42809	22.39N	88.27E	11	SAME	MEME
II	INDIA/INDE	GULMARG	43536	34.03N	74.24E	2760	SRINAGAR	43539
II	INDIA/INDE	KODAIKANAL	43339	10.14N	77.28E	2343	TRIVANDRUM	43371
II	INDIA/INDE	MOUNT ABU	42540	24.36N	72.43E	1220	AHMEDABAD	42647
II	INDIA/INDE	NEW DELHI	42182	28.38N	77.13E	216	SAME	NEME
II	INDIA/INDE	POONA	43063	18.32N	73.51E	559	BOMBAY	43003
II	INDIA/INDE	SRINAGAR	43539	34.05N	74.50E	1586	SAME	MEME
II	INDIA/INDE	TRIVANDRUM	43371	8.29N	76.57E	60	SAME	NEME
II	INDIA/INDE	VARANASI	42479	25.27N	82.52E	76	ALLAHABAD/BAMHRAL	42475
II	IRAQ/IRAK	HABBANIYA	40648	33.22N	43.34E	44	SAME	NEME

REGION	COUNTRY/PAYS	STATION	WMO NO.	LATITUDE DEG.MIN.	LONGITUDE DEG.MIN.	ELEVATION METRES	AEROLOGICAL STATION /AEROLOGIQUE	
II	JAPAN/JAPON	KAGOSHIMA	47827	31.38N	130.36E	283	SAME	MEME
II	JAPAN/JAPON	NAHA/KAGAMIZU	47936	26.12N	127.40E	29	SAME	MEME
II	JAPAN/JAPON	SAPPORO	47412	43.03N	141.20E	19	SAME	MEME
II	JAPAN/JAPON	TATENO	47646	36.03N	140.08E	31	SAME	MEME
II	JAPAN/JAPON	TORISHIMA	47063	30.29N	140.18E	83	SAME	MEME
II	MALDIVES-U.K./R.U.	GAN	41350	00.41S	73.09E	2	SAME	MEME
II	PAKISTAN	QUETTA	---	30.11N	66.57E	1799	QUETTA BREWERY	41661
II	THAILAND	BANGKOK	48455	13.44N	100.34E	2	SAME	MEME
II	U.S.S.R./U.R.S.S.	ALMA-ATA	36870	43.14N	76.56E	847	SAME	MEME
II	U.S.S.R./U.R.S.S.	ARALSKOE MORE	35746	46.47N	61.40E	56	SAME	MEME
II	U.S.S.R./U.R.S.S.	ASHKHABAD	38880	37.58N	58.20E	227	SAME	MEME
II	U.S.S.R./U.R.S.S.	BOLSHAYA ELAN (SOUTH SAKHALIN)	32150	46.55N	142.44E	22	SAME	MEME
II	U.S.S.R./U.R.S.S.	DIKSON ISLAND	20674	73.30N	80.14E	18	SAME	MEME
II	U.S.S.R./U.R.S.S.	DUSHANBE	38836	38.35N	68.47E	825	SAME	MEME
II	U.S.S.R./U.R.S.S.	GUREV	35700	47.01N	51.51E		SAME	MEME
II	U.S.S.R./U.R.S.S.	HANTY-MANSIJSK	23933	60.58N	69.04E	40	SAME	MEME
II	U.S.S.R./U.R.S.S.	HEISS ISLAND	20046	80.37N	58.03E	20	SAME	MEME
II	U.S.S.R./U.R.S.S.	IGARKA	23274	67.28N	86.34E	20	SAME	MEME
II	U.S.S.R./U.R.S.S.	IRKUTSK	30710	52.16N	104.21E	467	SAME	MEME
II	U.S.S.R./U.R.S.S.	KARAGANDA	35394	49.49N	73.08E	553	SAME	MEME
II	U.S.S.R./U.R.S.S.	KRASNOYARSK	29574	56.00N	92.53E	187	SAME	MEME
II	U.S.S.R./U.R.S.S.	KUIBYSHEV	28900	53.15N	50.27E	137	SAME	MEME
II	U.S.S.R./U.R.S.S.	MARKOVO	25551	64.41N	170.25E	22	SAME	MEME
II	U.S.S.R./U.R.S.S.	NAGAEVO	25913	59.35N	150.47E	118	SAME	MEME
II	U.S.S.R./U.R.S.S.	NORTH POLE II (DRIFTING)		VARIABLE				
II	U.S.S.R./U.R.S.S.	OLENEK	24125	68.30N	112.26E	127	SAME	MEME
II	U.S.S.R./U.R.S.S.	OMSK	28698	54.56N	73.24E	119	SAME	MEME
II	U.S.S.R./U.R.S.S.	PECHORA	23418	65.07N	57.06E	61	SAME	MEME
II	U.S.S.R./U.R.S.S.	PETROPAVLOSK-KAMCHATSKII	32540	52.58N	158.45E	78	SAME	MEME
II	U.S.S.R./U.R.S.S.	SEMIPALATINSK	36177	50.21N	80.15E	206	SAME	MEME
II	U.S.S.R./U.R.S.S.	SVERDLOVSK	28440	56.48N	60.38E	290	SAME	MEME
II	U.S.S.R./U.R.S.S.	TIKSI	---	71.35N	129.00E	8	BUHTA TIKSI	21824
II	U.S.S.R./U.R.S.S.	VITIM	30054	59.27N	112.35E	186	SAME	MEME
II	U.S.S.R./U.R.S.S.	VLADIVOSTOK	31960	43.07N	131.54E	80	SAME	MEME
II	U.S.S.R./U.R.S.S.	YAKUTSK	24959	62.05N	129.45E	98	SAME	MEME
III	ARGENTINA/ARGENTINE	BUENOS AIRES	87585	34.35S	58.29W	25	EZEIZA	87576
III	BOLIVIA/BOLIVIE	OVEJUYO (LA PAZ)	85203	16.31S	68.02W	3420	SAME	MEME
III	CHILE/CHILI	PUERTO MONTT	85801	41.27S	72.50W	5	NEUQUEN	87718
III	BRAZIL/BRESIL	CACHOEIRA PAULISTA	83835	22.41S	45.00W	573	SAO PAULO	83780

STATIONS

REGION	COUNTRY/PAYS	STATION	WMO NO.	LATITUDE DEG.MIN.	LONGITUDE DEG.MIN.	ELEVATION METRES	AEROLOGICAL STATION /AEROLOGIQUE	
III	BRAZIL/BRESIL	NATAL	82599	5.50S	35.12W	32	SAME	MEME
III	BRAZIL/BRESIL	NATAL (NASA)	82599	5.52S	35.23W	42	SAME	MEME
III	FALKLAND ISLANDS	STANLEY	88890	51.42S	57.52W	51	SAME	MEME
III	FRENCH GUIANA	KOUROU		5.20N	52.39W	4		
III	PERU/PEROU	CHILCA		12.30S	76.48W			
III	PERU/PEROU	HUANCAYO	84633	12.03S	75.19W	3313	LIMATAMBO	84631
III	U.S.A./E.U.A.	USNS ELTANIN (U.S.A.)		VARIABLE			SAME	MEME
IV	ANTIGUA	COOLIDGE FIELD		17.07N	61.47W	10	SAME	MEME
IV	CANADA	ALERT	74082	82.30N	62.20W	62	SAME	MEME
IV	CANADA	CHURCHILL	72913	58.45N	94.04W	35	SAME	MEME
IV	CANADA	COLD LAKE	74120	54.47N	110.03W	702	SAME	MEME
IV	CANADA	EDMONTON	72879	53.34N	113.31W	668	SAME	MEME
IV	CANADA	EDMONTON (STONY PLAIN)	74119	53.33N	114.06W	766	SAME	MEME
IV	CANADA	GIMLI	72856	50.38N	97.03W	228	EDMONTON	74119
IV	CANADA	GOOSE	72816	53.19N	60.23W	44	SAME	MEME
IV	CANADA	MOOSONEE	72836	51.16N	80.39W	10	SAME	MEME
IV	CANADA	RESOLUTE	72924	74.43N	94.59W	64	SAME	MEME
IV	CANADA	SASKATOON		52.71N	106.70W	550	EDMONTON	74119
IV	CANADA	TORONTO		43.47N	79.28W	198	BUFFALO	72528
IV	CANADA	YORKTON	74138	51.16N	102.28W	504	SAME	MEME
IV	JAMAICA/JAMAIQUE	KINGSTON	78397	17.56N	76.47W	14	SAME	MEME
IV	MEXICO /MEXIQUE	CERRILLO	---	19.29N	99.43W	2640	AEROP.INT.MEX.DF	76679
IV	MEXICO /MEXIQUE	MEXICO CITY	---	19.20N	99.11W	2268	AEROP.INT.MEX.DF	76679
IV	PANAMA	ALBROOK		8.59N	79.33W	66		
IV	PANAMA	BALBOA	78805	08.56N	79.34W		HOWARD AFB	78806
IV	PANAMA	FORT SHERMAN	78801	9.20N	79.59W	57	HOWARD AFB	78806
IV	PUERTO RICO	SAN JUAN		18.29N	66.08W	17	SAME	MEME
IV	TURKS ISLANDS/ILES TURKS	TURKS ISLAND	78118	21.28N	71.08W	10	SAME	MEME
IV	U.S.A./E.U.A.	ALBUQUERQUE	72365	35.05N	106.37W	1573	SAME	MEME
IV	U.S.A./E.U.A.	BARROW	70026	71.19N	156.36W	11	SAME	MEME
IV	U.S.A./E.U.A.	BEDFORD	74490	42.27N	71.16W	80	NANTUCKET(NEM.)	72506
IV	U.S.A./E.U.A.	BISMARCK	72764	46.46N	100.45W	511	SAME	MEME
IV	U.S.A./E.U.A.	BOULDER	---	40.01N	105.15W	1634	DENVER	72469
IV	U.S.A./E.U.A.	CARIBOU	72712	46.52N	68.01W	192	SAME	MEME
IV	U.S.A./E.U.A.	DENVER		39.46N	104.53W	1611	SAME	MEME
IV	U.S.A./E.U.A.	FAIRBANKS	70261	64.49N	147.52W	138	SAME	MEME

REGION	COUNTRY/PAYS	STATION	WMO NO.	LATITUDE DEG.MIN.	LONGITUDE DEG.MIN.	ELEVATION METRES	AEROLOGICAL STATION /AEROLOGIQUE	
IV	U.S.A./E.U.A.	FLAGSTAFF	---	35.11N	111.39W	2130	WINSLOW	72374
IV	U.S.A./E.U.A.	FLETCHER ICE ISLAND DRIFTING (NORTH POLE)	---	VARIABLE		3	UNKNOWN	
IV	U.S.A./E.U.A.	FORT COLLINS	---	40.34N	105.04W	1551	DENVER	72469
IV	U.S.A./E.U.A.	FORT WORTH	72259	32.50N	97.03W	176	SAME	MEME
IV	U.S.A./E.U.A.	FRESNO		36.46N	119.43W	100	SAME	MEME
IV	U.S.A./E.U.A.	GREAT FALLS		47.29N	111.21W	1118	SAME	MEME
IV	U.S.A./E.U.A.	GREEN BAY	72645	44.29N	88.08W	209	SAME	MEME
IV	U.S.A./E.U.A.	LONGVIEW		32.30N	94.45W	103		
IV	U.S.A./E.U.A.	MADISON	72641	43.08N	89.20W	264	GREEN BAY	72645
IV	U.S.A./E.U.A.	MCDONALD OBSERVATORY		30.40N	90.56W	2081		
IV	U.S.A./E.U.A.	MIDLAND	72265	31.56N	102.12W	872	SAME	MEME
IV	U.S.A./E.U.A.	NASHVILLE	72327	36.15N	86.34W	182	SAME	MEME
IV	U.S.A./E.U.A.	PALESTINE		31.48N	95.43W	121	SAME	MEME
IV	U.S.A./E.U.A.	POINT MUGU	72391	34.07N	119.07W		VANDENBERG AFB	72393
IV	U.S.A./E.U.A.	POKER FLAT	70192	65.07N	147.29W	204		
IV	U.S.A./E.U.A.	SAN DIEGO		32.49N	117.08W	124	SAME	MEME
IV	U.S.A./E.U.A.	SEATTLE	72793	47.27N	122.18W	137	TATOOSH ISLAND	72798
IV	U.S.A./E.U.A.	SILVER HILL	---	38.50N	76.57W	89	WASHINGTON	72403
IV	U.S.A./E.U.A.	SPOKANE		47.40N	117.25W	576	SAME	MEME
IV	U.S.A./E.U.A.	STERLING	---	38.59N	77.29W	84	WASHINGTON	72403
IV	U.S.A./E.U.A.	TALLAHASSEE	72214	30.26N	84.20W	53	VALPARAISO/EGLIN	72221
IV	U.S.A./E.U.A.	TOPEKA	72456	39.04N	95.38W	270	SAME	MEME
IV	U.S.A./E.U.A.	WALLOPS ISLAND	72402	37.51N	75.31W	7	SAME	MEME
IV	U.S.A./E.U.A.	WASHINGTON	72403	38.59N	77.29W	84	SAME	MEME
IV	U.S.A./E.U.A.	WHITE SANDS	72269	32.23N	106.29W	1224	EL PASO	72270
V	AUSTRALIA/AUSTRALIE	ASPENDALE	---	38.02S	145.06E	0	LAVERTON	94865
V	AUSTRALIA/AUSTRALIE	BRISBANE	94576	27.28S	153.02E	0	EAGLE FARM	94578
V	AUSTRALIA/AUSTRALIE	CAIRNS	94287	16.55S	145.44E	4	SAME	MEME
V	AUSTRALIA/AUSTRALIE	CAPE GRIM		40.41S	144.41E	94	LAVERTON	94865
V	AUSTRALIA/AUSTRALIE	DARWIN	94121	12.28S	130.50E	0	DARWIN AIRPORT	94120
V	AUSTRALIA/AUSTRALIE	HOBART	94970	42.53S	147.20E	0	CAMBRIDGE	94975
V	AUSTRALIA/AUSTRALIE	MACQUARIE ISLAND	94998	54.29S	158.58E	0	SAME	MEME
V	AUSTRALIA/AUSTRALIE	PERTH	94608	31.57S	115.51E	0	PERTH AIRPORT	94610
V	AUSTRALIA/AUSTRALIE	PORT MORESBY	94035	9.28S	147.13E	0	SAME	MEME
V	AUSTRALIA/AUSTRALIE	SALISBURY	---	34.43S	138.39E	0	ADELAIDE AIRPORT	94672
V	AUSTRALIA/AUSTRALIE	WOOMERA	94659	30.57S	136.31E	146	SAME	MEME
V	NEW ZEALAND/N.ZELANDE	CHRISTCHURCH	93780	43.29S	172.33E	34	SAME	MEME
V	NEW ZEALAND/N.ZELANDE	INVERCARGILL	93844	46.25S	168.19E	1	SAME	MEME
V	NEW ZEALAND/N.ZELANDE	WELLINGTON	93434	41.17S	174.46E	126	CHRISTCHURCH	93780
V	JAPAN/JAPON	MARCUS ISLAND	91131	24.17N	153.58E	17	SAME	MEME
V	PHILIPPINES	MANILA		14.38N	121. 5E	61	CLARK AFB	98327
V	SINGAPORE	SINGAPORE		1.20N	103.53E	14	SAME	MEME

STATIONS

REGION	COUNTRY/PAYS	STATION	WMO NO.	LATITUDE DEG.MIN.	LONGITUDE DEG.MIN.	ELEVATION METRES	AEROLOGICAL STATION /AEROLOGIQUE	
V	U.S.A./E.U.A.	CANTON ISLAND	91700	02.46S	171.43W	3	SAME	MEME
V	U.S.A./E.U.A.	HILO, HAWAII	91285	19.43N	155.04W	11	SAME	MEME
V	U.S.A./E.U.A.	MAUNA LOA, HAWAII	---	19.32N	155.35W	3397	HILO, HAWAII	91285
V	U.S.A./E.U.A.	SAMOA		14.15S	170.34W	82	SAME	MEME
VI	AUSTRIA/AUTRICHE	LUNZ AM SEE	11170	47.51N	15.04E	615	WIEN	11035
VI	AUSTRIA/AUTRICHE	WIEN/HOHE WARTE	11035	48.15N	16.22E	203	SAME	MEME
VI	AZORES/ACORES	SANTA MARIA	08515	36.58N	25.10W	100	LAJES	08589
VI	BELGIUM/BELGE	UCCLE	06447	50.48N	04.21E	100	SAME	MEME
VI	BULGARIA/BULGARIE	SOFIA	15614	42.49N	23.23E	588	SAME	MEME
VI	CZECHOSLOVAKIA/TCHECH.	HRADEC KRALOVE	11648	50.11N	15.50E	285	PRAHA/RUZYNE	11518
VI	DENMARK/DANEMARK	AARHUS	06070	56.10N	10.12E	53	COPENHAGEN	06181
VI	FRANCE	BISCARROSSE/SMS	07503	44.22N	01.14W	18	BORDEAUX	07510
VI	FRANCE	HAUTE PROVENCE OBS.	---	43.55N	05.45E	580	NIMES	07645
VI	FRANCE	MAGNY-LES-HAMEAUX	---	48.44N	02.04E	165	TRAPPES	07145
VI	FRANCE	MONT-LOUIS	---	42.30N	02.08E	1650	NIMES	07645
VI	FRANCE	PARIS-MONTSOURIS	---	48.49N	02.20E	76	TRAPPES	07145
VI	FRANCE	VALENSOLE	---	43.51N	05.58E	600	NIMES	07645
VI	FRANCE	VAL JOYEUX	---	48.49N	02.01E	114	TRAPPES	07145
VI	F.R.G/R.F.A.	BERLIN/TEMPELHOF	10384	52.28N	13.26E	50	SAME	MEME
VI	F.R.G/R.F.A.	COLOGNE		50.56N	6.56E	50	ESSEN	10410
VI	F.R.G/R.F.A.	GARMISCH/P.	10963	47.29N	11.04E	740	MUNICH	10866
VI	F.R.G/R.F.A.	HOHENPEISSENBERG	10962	47.48N	11.01E	975	MUNICH	10866
VI	F.R.G/R.F.A.	WEISSENAU	---	47.46N	9.35E	445	STUTTGART	10739
VI	G.D.R./R.D.A.	ARKONA	09091	54.41N	13.26E	42	GREIFSWALD	09184
VI	G.D.R./R.D.A.	BOLTENHAGEN	---	53.59N	11.14E	3	GREIFSWALD	09184
VI	G.D.R./R.D.A.	BROCKEN	09453	51.48N	10.37E	1142	HANNOVER	10338
VI	G.D.R./R.D.A.	DRESDEN	09486	51.07N	13.41E	246	SAME	MEME
VI	G.D.R./R.D.A.	FICHTELBERG	09578	50.26N	12.57E	1213	DRESDEN	09486
VI	G.D.R./R.D.A.	INSELSBERG (GROSSER)	09549	50.51N	10.28E	910	MEININGEN	09548
VI	G.D.R./R.D.A.	KALTENNORDHEIM	09546	50.39N	10.09E	487	MEININGEN	09548
VI	G.D.R./R.D.A.	LINDENBERG	09393	52.13N	14.07E	98	SAME	MEME
VI	G.D.R./R.D.A.	MEININGEN	09548	50.55N	10.37E	450	SAME	MEME
VI	G.D.R./R.D.A.	NEUGLOBSOW		53.09N	13.02E	63	BERLIN/TEMPELHOF	10384
VI	G.D.R./R.D.A.	POTSDAM	09379	52.23N	13.03E	32	BERLIN/TEMPELHOF	10384
VI	G.D.R./R.D.A.	SCHMUECKE		50.39N	10.46E	942	MEININGEN	09548
VI	GREENLAND/GROENLAND	THULE	04202	76.31N	68.50W	59	SAME	MEME
VI	HUNGARY/HONGRIE	BUDAPEST-LORINC	12843	47.26N	19.11E	140	SAME	MEME

REGION	COUNTRY/PAYS	STATION	WMO NO.	LATITUDE DEG.MIN.	LONGITUDE DEG.MIN.	ELEVATION METRES	AEROLOGICAL STATION /AEROLOGIQUE	
VI	ICELAND/ISLANDE	REYKJAVIK	04030	64.08N	21.54W	60	KEFLAVIK	04018
VI	ITALY/ITALIE	BRINDISI	16320	40.39N	17.57E	5	SAME	NEME
VI	ITALY/ITALIE	CAGLIARI/ELMAS	16560	39.05N	09.03E	4	SAME	NEME
VI	ITALY/ITALIE	MESSINA	16420	38.12N	15.33E	51	SAME	NEME
VI	ITALY/ITALIE	NAPLES	---	40.51N	14.15E	45	ROME	16242
VI	ITALY/ITALIE	SESTOLA		44.13N	10.46E	1030	MILAN	16080
VI	ITALY/ITALIE	VIGNA DI VALLE	16224	42.05N	12.13E	262	ROME	16242
VI	NORWAY/NORVEGE	LONGYEAR	01007	78.13N	15.35E	0	JAN MAYEN	01001
VI	NORWAY/NORVEGE	MURCHISON BAY	---	80.00N	18.00E	0	JAN MAYEN	01001
VI	NORWAY/NORVEGE	NY ALESUND	01004	78.56N	11.53E	0	JAN MAYEN	01001
VI	NORWAY/NORVEGE	OSLO	01488	59.54N	10.43E	50	OSLO/GARDERMOEN	01384
VI	NORWAY/NORVEGE	SVALBARD HORNSUND		77.00N	15.33E	11	JAN MAYEN	01001
VI	NORWAY/NORVEGE	TROMSO	01026	69.39N	18.57E	100	BODD	01152
VI	POLAND/POLOGNE	BELSK	12367	51.50N	20.47E	180	LEGIONOWO	12374
VI	POLAND/POLOGNE	LEGIONOWO	12374	52.24N	20.58E	96	SAME	NEME
VI	POLAND/POLOGNE	SHIP, RES., POLAND		VARIABLE		0	VARIABLE	
VI	PORTUGAL	LISBON	08536	38.46N	09.08W	105	SAME	NEME
VI	ROMANIA/ROMANIE	BUCHAREST	15420	44.29N	26.08E	92	SAME	NEME
VI	SPAIN/ESPANOL	EL ARENOSILLO	08384	37.06N	06.44W	41	GIBRALTAR	08495
VI	SWEDEN/SUEDE	UPPSALA	02076	59.51N	17.37E	15	STOCKHOLM	02077
VI	SWITZERLAND/SUISSE	AROSA	---	46.46N	09.40E	1860	PAYERNE	06610
VI	SWITZERLAND/SUISSE	JUNGFRAUJOCH	---	47.00N	08.00E	3573	PAYERNE	06610
VI	SWITZERLAND/SUISSE	PAYERNE	06610	46.49N	6.57E	491	SAME	NEME
VI	SWITZERLAND/SUISSE	THALWIL	---	47.18N	8.33E	515	PAYERNE	06610
VI	U.S.S.R./U.R.S.S.	ABASTUMANI	37506	41.45N	42.50E	1600	TBILISI	37549
VI	U.S.S.R./U.R.S.S.	ELBRUS MT.	---	43.19N	42.28E	2180	VORONEZ	34122
VI	U.S.S.R./U.R.S.S.	FEODOSIJA(KARADAG)	33976	45.02N	35.23E	26	SIMFEROPOL	33946
VI	U.S.S.R./U.R.S.S.	KIEV	33345	50.20N	30.58E	121	SAME	NEME
VI	U.S.S.R./U.R.S.S.	LENINGRAD	26063	59.58N	30.18E	74	SAME	NEME
VI	U.S.S.R./U.R.S.S.	LWOW	33393	49.49N	23.57E	325	SAME	NEME
VI	U.S.S.R./U.R.S.S.	MOSCOW	27612	55.45N	37.34E	187	SAME	NEME
VI	U.S.S.R./U.R.S.S.	MURMANSK	22113	68.58N	33.03E	46	SAME	NEME
VI	U.S.S.R./U.R.S.S.	ODESSA	33837	46.29N	30.38E	42	SAME	NEME
VI	U.S.S.R./U.R.S.S.	RIGA	26422	56.58N	24.04E	10	SAME	NEME
VI	U.S.S.R./U.R.S.S.	TBILISI	37549	41.41N	44.57E	490	SAME	NEME
VI	U.S.S.R./U.R.S.S.	VORONEZ	34122	51.42N	39.10E	147	SAME	NEME
VI	U.K./R.U.	ALDERGROVE	03917	54.39N	6.13W	72	SAME	NEME

STATIONS

REGION	COUNTRY/PAYS	STATION	WMO NO.	LATITUDE DEG.MIN.	LONGITUDE DEG.MIN.	ELEVATION METRES	AEROLOGICAL STATION /AEROLOGIQUE	
VI	U.K./R.U.	BRACKNELL	03764	51.23N	00.47W	74	CRAWLEY	03774
VI	U.K./R.U.	CAMBORNE	03808	50.13N	05.19W	88	SAME	NEME
VI	U.K./R.U.	ESKDALEMUIR	03162	55.19N	03.12W	242	SHANWELL	03170
VI	U.K./R.U.	HEMSBY	03496	52.41N	1.41E	14	SAME	NEME
VI	U.K./R.U.	LERWICK	03005	60.09N	01.09W	90	SAME	NEME
VI	U.K./R.U.	OXFORD	03657	51.45N	01.11W	140	CRAWLEY	03774
		SIBTON		51.30N	0.07W	50	CRAWLEY	03774
ANTARCTICA	BELGIUM/BELGE+N-LNDS/PB	BASE KING BAUDOUIN	89522	70.26S	24.19E	38	SAME	NEME
ANTARCTICA	FRANCE	DUMONT D'URVILLE	95502	66.40S	140.01E	40	SAME	NEME
ANTARCTICA	JAPAN/JAPON	SYOWA	89532	69.00S	39.35E	21	SAME	NEME
ANTARCTICA	NORWAY/NORVEGE	NORWAY STATION	89671	70.30S	02.32W	56		
ANTARCTICA	U.S.S.R./U.R.S.S.	MIRNY	89592	66.33S	93.00E	30	SAME	NEME
ANTARCTICA	U.K./R.U.	ARGENTINE ISLANDS	88952	65.15S	64.16W	10	SAME	NEME
ANTARCTICA	U.K./R.U.	HALLEY BAY	89022	75.31S	26.44W	31	SAME	NEME
ANTARCTICA	U.K./R.U.	KING EDWARD POINT	88903	54.16S	36.30W	2		NEME
ANTARCTICA	U.S.A./E.U.A.	AMUNDSEN-SCOTT	89009	89.59S	24.48W	2835	SAME	
ANTARCTICA	U.S.A./E.U.A.	BYRD	89125	80.01S	119.31W	1528	SAME	NEME
ANTARCTICA	U.S.A./E.U.A.	HALLETT	89671	72.19S	170.13E	5	SAME	NEME
ANTARCTICA	U.S.A./E.U.A.	LITTLE AMERICA	---	78.00S	162.00W	44		NEME
ANTARCTICA	U.S.A./E.U.A.	WILKES	---	66.15S	110.31E	12	SAME	NEME

STATION...(34).....AARHUS
ORGANISATION.....DIRECTOR, DANISH MET. INST., LYNGBYVEG 100, DK 2100 COPENHAGEN, DENMARK
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010160	011168	1	03	92	AD, 3 OBSERVATIONS OF TOTAL OZONE EVERY DAY
011168		1	03	92	CC', 3 OBSERVATIONS OF TOTAL OZONE EVERY DAY
					INSTRUMENT CALIBRATION,BOULDER,APR-NOV 1977.

PUBLICATIONS..... -

STATION...(33).....ABASTUMANI
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OBLITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010757	261161	1	9		M=NOON TO 4.2
041261		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY

PUBLICATIONS..... OD USSR 1964-65,1966-67

STATION...(73).....AHMEDABAD
ORGANISATION.....PHYSICAL RESEARCH LABORATORY, AHMEDABAD-9 INDIA
INFORMATION.....PROF.K.R. RAMANATHAN, PHYSICAL RESEARCH LABORATORY, AHMEDABAD-9, INDIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
030654	280555	5	05		
240160	121069	1	03	54	5 OBS. DAILY AT Z=01,05,09,12,15(DATA NOT PUBLISHED)
240160	121069	2	03	54	DAILY 2 TO 4 OBS., L=AD,CC' (=B SINCE NOV. 67)
					2 TO 3 OBS PER WEEK SINCE 1964, L=A,C,D
192268	240268	5	05		INSTRUMENT 54 RE-INSTALLED AT MOUNT ABU 13 OCTOBER 69
					2 OBS EVERY DAY

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS, SINCE JULY 1955

STATION...(229).....ALBROOK
ORGANISATION.....NASA, FIELD MEASUREMENT SUPPORT OFFICE, WALLOPS FLIGHT CENTER, VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
300880	180980	3	XX		BALLOON LAUNCHES MADE IN SUPPORT OF SATELLITE OVERPASSES
					ECC SONDE

PUBLICATIONS..... -

STATION...(103).....ALBUQUERQUE — NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(162).....ALDERGROVE — NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(18).....ALERT — NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(3).....ALMA-ALTA
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
021157	081258	1	09		M=NOON TO 3.5
180559	311259	1	09		M=NOON TO 2.5
050660	140872	1	14		L=3140A AND 3690A 1T07 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150872		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(111).....AMUNDSEN-SCOTT
ORGANISATION.....NOAA
INFORMATION.....NOAA-ERL-ARL,R/E/AR4, 325 BROADWAY,BOULDER,COLORADO 80303

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
171161		1	03	82	3 OBSERVATIONS OF TOTAL OZONE DAILY, OBSERVATIONS MADE ON A,C,D WAVELENGTHS AT 2200,0000,0200 GMT. OBSERVATIONS
260362	271062	3	13		MADE ON MOON DURING DARK PERIOD
050264	141266	3	XX		WEDNESDAYS 00Z ONE FLIGHT A MONTH
			03		WEDNESDAYS 00Z ONE FLIGHT A WEEK IN 1964,1965,ONE FLIGHT A MONTH IN 1966.INSTRUMENT TYPES 13 AND 16
			03		DOBSON NO 82 INOPERATIVE NOVEMBER 1971 TO NOVEMBER 1972
051272		1	03	80	DOBSON NO 82 REPLACED WITH DOBSON NO 80 ON DECEMBER 5,72 3 OBSERVATIONS OF TOTAL OZONE DAILY, OBSERVATIONS MADE ON A,C,D WAVELENGTHS AT NOON AND TWO HOURS BEFORE AND
010275	311278	5	XX		AFTER NOON
					TYPE=ECC/WET CHEMICAL
010179		5	XX		CONTINUOUS RECORDING REDUCED TO HOURLY MEANS
					TYPE=DASIBI UV ABSORPTION PHOTOMETER
					CONTINUOUS RECORDING REDUCED TO HOURLY MEANS

PUBLICATIONS.....ESSA ERL 80-APCL 3 VOLUME 2, OZONESONDE OBSERVATIONS 1962-1966
NOAA TM ERL ARL-56, SURFACE OZONE IN ANTARCTICA,HOURLY SFC.OZONE OBS.FROM AMUNDSEN-SCOTT,BYRD,EIGHTS AND HALLETT DURING THE PERIOD 1961-1973.

STATION...(182).....ARALSKOE MORE
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0467	1267	1			NO DETAILS

PUBLICATIONS.....OD USSR

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(17).....ARGENTINE ISLANDS
ORGANISATION.....BRITISH ANTARCTIC SURVEY, MADINGLEY ROAD, CAMBRIDGE, ENGLAND CB3 0ET
INFORMATION.....B.G.GARDINER, ATMOSPHERIC SCIENCES DIVISION, BRITISH ANTARCTIC SURVEY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
190357	210162	1	03	0051	FROM 190357 TO 300665: DAILY, M=3.0,2.0,NOON,2.0,3.0.
190357	210162	2	03	0051	FROM 010765 TO 310375: DAILY, M=2.6,2.0,NOON,2.0,2.6.
220162	290164	1	03	0073	3.4,3.4,4.2 WHEN M EXCEEDS 2.4 AT NOON. ROUTINE OBS ON
220162	290164	2	03	0073	ZENITH L=AD FOR M LESS THAN 2.4, L=CC' FOR M BETWEEN 2.4
300164	240267	1	03	0031	AND 4.4. ALSO DIRECT SUN/MOON WHEN POSSIBLE, L=AD OR CD.
300164	240267	2	03	0031	UMKEHRS WHEN CONDITIONS SUITABLE, L=A,C,D.
250267	260170	1	03	0103	
250267	260170	2	03	0103	
270170		1	03	0073	
270170		2	03	0073	

PUBLICATIONS.....BRITISH ANTARCTIC SURVEY SCIENTIFIC REPORTS: NO. 90.

STATION...(169).....ARKONA
ORGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010456	311263	5	02		4 OBSERVATIONS DAILY
010164	300467	5	02		8 OBSERVATIONS DAILY
010567	311281	5	02		4 OBSERVATIONS DAILY
010182		5	XX		MODIFIED ELECTROCHEMICAL CONTINUOUS REGISTRATION
					CHROMIC ACID FILTERS ADDED JANUARY 1,1972 TO REMOVE SO 2

PUBLICATIONS..... -

STATION...(35).....AROSA
ORGANISATION.....ETH-ZUERICH SWITZERLAND
INFORMATION.....LAB. FOR ATMOSPHERIC PHYSICS, ETH HOENGGERBERG, HPP, 8049 ZUERICH, SCHWEISS

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
230726		1	03	15	L=C,AD SOR MORE OBSERVATIONS DAILY
010156		2	03	15	L=C
010767		1	03	101	EXPERIMENTAL,NOT PUBLISHED
010767		2	03	101	EXPERIMENTAL,NOT PUBLISHED
11174		1	03	51	AUTOMATED INSTRUMENT,CONTINUOUS RECORDINGS, EXPERIMENTAL
011270		5	XX		EXPERIMENTAL,MODIFIED ELECTROCHEMICAL

PUBLICATIONS.....ANNALEN DER SCHWEIZ.METEOROLOG.ZENTRALANSTALT 1958 AND FOLLOWING.
UNIFORM EVALUATION OF UMKEHR OBSERVATIONS,PART II, NCAR BOULDER,COLO.,1964

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(90).....ASHKHABAD
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
011161	300971	1	14		L=3140A AND 3690A N=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
011071		1	14		L=2980A AND 3260A N=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(26).....ASPENDALE
ORGANISATION.....C.S.I.R.O. ASPENDALE AUSTRALIA
INFORMATION.....BUREAU OF METEOROLOGY. 150 LONSDALE STREET, MELBOURNE 3001 AUSTRALIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
0755	0667	1	03	12	5 OBS.OF TOTAL OZONE EVERY DAY. SPECIAL NOON OBS.
0755	0667	2	03	12	2 UMKEHR OBS. EVERY WEEK L=C
010664		5	05		DAILY, ONE OBSERVATION AT 13.00 HRS. LOCAL TIME
0667		1	03	105	5 OBS. OF TOTAL OZONE EVERY DAY SPECIAL NOON OBS.
0667		2	03	105	2 UMKEHR OBS. EVERY WEEK L=C
0665		3	10		WEDNESDAYS, 02 TO 05Z, SPECIALS AND 2 EXTRA EACH WGI
010370		5	01		CONTINUOUS (BREWER SURFACE OZONE BUBBLER)
010181		1	3	105	NO PROGRAM CHANGES LISTED
010181		2	3	105	NO PROGRAM CHANGES LISTED
010181		3	10		NO PROGRAM CHANGES LISTED

PUBLICATIONS..... -

STATION...(141).....BALBOA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(4).....BANARAS NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(216).....BANGKOK
ORGANISATION.....ATMOSPHERIC OZONE STATION,METEOROLOICAL DEPARTMENT,BANGKOK 10110, THAILAND
INFORMATION.....ATMOSPHERIC OZONE STATION,METEOROLOICAL DEPARTMENT,BANGKOK 10110, THAILAND

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010178	300482	1	03	0090	HOURLY OBSERVATION OF TOTAL OZONE IN DIRECT SUN OR
010178	300482	1	03	0090	ZENITH SKY EVERY DAY
					L = A,D, M = 1.20 - 2.90
010582		1	03	0090	HOURLY OBSERVATION OF TOTAL OZONE IN DIRECT-SUN OR
010582		1	03	0090	ZENITH SKY EVERY DAY
					L = A,D, M = 1.15 - 3.00

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(199).....BARROW
ORGANISATION.....NOAA - AIR RESOURCES LAB R329 BOULDER,CO.,USA 80303
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010873	081082	1	03	76	3 OBS. DAILY MADE ON A,C,D WAVELENGTHS AT NOON AND TWO HOURSBEFORE AND AFTER NOON,OBSERVATIONS MADE ON MOON DURING DARK PERIOD
140373	310775	5	XX		TYPE=ECC/WET CHEMICAL CONTINUOUS RECORDING REDUCED TO HOURLY MEANS
010875		5	XX	TYPE	=DASIBI UV ABSORPTION PHOTOMETER CONTINUOUS RECORDING REDUCED TO HOURLY MEANS PROGRAM TERMINATED.

PUBLICATIONS..... -

STATION...(199).....BARROW
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
140674	180674	3	EC		SPECIAL PROJECT

PUBLICATIONS..... -

STATION...(81).....BASE KING BAUDOUIN NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(104).....BEDFORD NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(68).....BELSK
ORGANISATION.....INSTITUTE OF GEOPHYSICS,POLISH ACADEMY OF SCIENCES,WARSAW,PASTEURA 3,POLAND
INFORMATION.....DR LOSIOWA, INSTITUTE OF GEOPHYSICS, WARSZAWA 22,PASTEURA 3 ,POLAND

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
200363		1	3	84	3-5 PER DAY, M=2.6, 2.0 , NOON, WHEN POSSIBLE. L=AD, CD, CC'
010463		2	3	84	TWICE PER DAY WHENEVER CONDITIONS ARE SUITABLE,L=C

PUBLICATIONS.....MATERIALY I PRACE 75 PUBLICATIONS OF THE INSTITUTE OF GEOPHYSICS POLISH ACADEMY OF SCIENCES

STATION...(181).....BERLIN/TEMPELHOF
ORGANISATION.....INST.F.METEOROLOGIE, FV.BERLIN, D1 BERLIN 33, PODBIELSKIALLEE 62, F.R.G.
INFORMATION.....INST.F.METEOROLOGIE, FV.BERLIN, D1 BERLIN 33, PODBIELSKIALLEE 62, F.R.G.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
021166	131071	3	1		WEDNESDAY A.M., ADDITIONAL FLIGHTS ON SPECIAL OCCASIONS PROGRAM TERMINATED

PUBLICATIONS.....METEOROLOGISCHE ABHANDLUNGEN DES INST.F.METEOROLOGIE DER FV BERLIN VOL.76, 85, 90, 104, 115, 122.

STATION...(197).....BISCARROSSE/SMS
ORGANISATION.....DIR METEOROLOGIE EERM/D 73 RUE DE SEVRES 92106 BOULOGNE BILLANCOURT FRANCE
INFORMATION.....STATION METEOROLOGIQUE SMS 40600 BISCARROSSE BOITE POSTALE 40 FRANCE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
160376		3	10		WEDNESDAY,WHEN POSSIBLE,IF NOT,OTHER WORKING DAY
160376	300976	1	03	49	L=AD,CD 8 TO 12 OBS DAILY TILL M=3,5 EXCEPT SATURDAY, SUNDAY AND BANK HOLIDAYS
011076	310377	1	03	49	L=AD,CD 8 TO 12 OBS DAILY TILL M=3,5 EXCEPT A FEW HOLIDAYS ONLY
010477	310778	1	03	49	NO CHANGE BUT OBS TO BE WITHIN 0715Z TO 1045Z ON SUNDAY, 0615Z TO 1430Z OTHER DAYS IN SUMMER,ONE HOUR LATE IN WINTER
010878	310779	1	03	49	
010879		1	03	11	NO CHANGE EXCEPT L=AD,BD,CD

PUBLICATIONS..... -

STATION...(19).....BISMARCK
ORGANISATION.....NOAA-ARL, RF3292, BOULDER, COLORADO, 80302, U.S.A.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
0757	1259	1			NO DETAILS,THIS REFERENCE TAKEN FROM WODC DATA FILES
010163		1	03	33	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D WAVELENGTHS AT NOON, AND TWO HOURS BEFORE AND AFTER NOON

PUBLICATIONS..... -

STATION...(112).....BOLSHAYA ELAN
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
160963	141073	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
151073		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(170).....BOLTENHAGEN NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(67).....BOULDER
ORGANISATION.....MOAA.
INFORMATION.....MOAA-ERL-ARL,R/E/AR4, 325 BROADWAY,BOULDER,COLORADO 80303

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
210863	271163	3	10		1 PER WEEK 1500Z RELEASE,ADJUSTED TO AGREE WITH DOBSON TOTAL OZONE USING C WAVELENGTHS
031263	310164	3	10		2 PER WEEK
010164	310766	1	03	91	SEVERAL OBSERVATIONS PER DAY
010164	031165	2	03	91	OCCASIONAL
040264	120664	3	10		5 PER WEEK
150664	231064	3	10		3 PER WEEK
261064	050265	3	10		4 PER WEEK
080265	280565	3	10		5 PER WEEK
010665	300765	3	10		3 PER WEEK
010966	131271	1	3	91	3 OBSERVATIONS OF TOTAL OZONE DAILY,OBSERVATIONS MADE
161271	131072	1	3	80	ON A,C,D WAVELENGTHS AT NOON AND TWO HOURS BEFORE AND AFTER NOON
011172	010673	1	3	76	NO OTHER CHANGE
010673		1	3	82	NO OTHER CHANGE
230278	311281	2	03	0082	L=A,C WHEN CONDITIONS ARE SUITABLE
010182		2	3	61	L=A,C,D WHEN CONDITIONS ARE SUITABLE
120379		3	XX		TYPE=ECC APPROXIMATELY ONE SOUNDING PER MONTH
080182		1	03	61	3 OBSERVATIONS OF TOTAL OZONE DAILY, OBSERVATIONS MADE ON A,C,D WAVELENGTHS AT NOON AND TWO HOURS BEFORE AND AFTER NOON
		2	03		AUTOMATED DOBSON AUTOMATICALLY TAKES A DAILY AM AND PM UMKEHR WHEN SKY CONDITIONS PERMIT

PUBLICATIONS..... -

STATION...(102).....BRACKNELL
ORGANISATION.....DIRECTOR GEN.,M.O. 15, BEAUFORT PARK, WOKINGHAM, BERKSHIRE, RG11 3DN U.K.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010367	301167	1	03	02	WEEKDAYS, AD, C. SOME SPECIALS
010668	150279	1	03	02	DAILY, AD, CD. SOME SPECIALS
160279	230479	1	03	41	SAME
240479	020779	1	03	02	SAME
030779	300979	1	03	41	SAME
011079		1	03	02	SAME

PUBLICATIONS..... -

STATION...(243).....BRINDISI
ORGANISATION.....SERVIZIO METEOROLOGICO DELL'AERONAUTICA
INFORMATION.....UFFICIO DOCUMENTAZIONE-QUADRATO DELLA CONCORDIA 00144 ROMA ITALY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010982		1	03	46	3 TO 5 MEASUREMENTS, L=A,D,C N=1 TO N=3

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(27).....BRISBANE
ORGANISATION.....C.S.I.R.O. ASPENDALE
INFORMATION.....BUREAU OF METEOROLOGY. 150 LONSDALE STREET, MELBOURNE 3001 AUSTRALIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0257		1	03	06	2 TOTAL OZONE OBS. EVERY DAY
0257		2	03	06	1 UMKEHR EVERY WEEK, L=C
010181		1	3	6	
010181		2	3	6	

PUBLICATIONS..... -

STATION...(171).....BROCKEN NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(226).....BUCHAREST
ORGANISATION.....INSTITUTUL DE METEOROLOGIE SOSEAUA BUCURESTI-PLOIESTI 97 COD 71581
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010180		1	03	121	AD 1 TO 3 OBSERVATIONS DAILY M=1-3,5 Z=8-12

PUBLICATIONS..... -

STATION...(100).....BUDAPEST-LORINC
ORGANISATION.....CENTRAL INSTITUTE OF ATM.PHYS. 1675 BUDAPEST P.O.B. 39. HUNGARY
INFORMATION.....METEOROLOGICAL SERVICE OF THE HUNGARIAN P.R. 1525. BUDAPEST,114. P.O.B. 38.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010167	280267	1	14	M-83	THREE TIMES PER DAY WHEN CONDITIONS SUITABLE Z=9-13
010367	310367	1	14	M-83	FOUR TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=7-13
010467	300967	1	14	M-83	FIVE TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=7-15
011067	311067	1	14	M-83	FOUR TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=7-13
011167	280268	1	14	M-83	THREE TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=9-13
010368	300968	1	14	M-83	FIVE TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=7-15
011068	311068	1	14	M-83	FOUR TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=7-13
011168	280269	1	14	M-83	THREE TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=9-13
010369		1	14	M-83	FIVE TIMES PER DAY WHEN CONDITIONS SUITABLE. Z=7-15
					L I FILTER=3140A,II FILTER=3690A.M VALUES RANGE COVERED
010170	311274	1	03	110	DAILY 3-5 OBS. WHEN IT IS POSSIBLE, M=1-4 L=AD Z=7-15
010174	040274	1	03	110	DAILY 3 OBS. WHEN IT IS POSSIBLE M=1,3,5 L=AD Z=8-14
050274	090674	1	03	110	DAILY 5 OBS.WHEN IT IS POSSIBLE M=1-3,5 L=AD Z=7-15
100674	290774	1	03	110	NO OBS. BECAUSE OF THE INTERCOMPARISON OF INSTRUMENTS
300774	301174	1	03	110	DAILY 5 OBS.WHEN IT IS POSSIBLE M=1-3,5 L=AD Z=7-15
011274		1	03	110	DAILY 3 OBS.WHEN IT IS POSSIBLE M=1-3,5 L=AD Z=8-14

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(91).....BUENOS AIRES
ORGANISATION.....SERVICIO METEOROLOGICO NACIONAL
INFORMATION.....FAA LAB OZONO SMN AV CONSTITUYENTES 3454 BS AS C6P 1427 ARGENTINA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
011065		1	03	0097	AD,CC*,2 DAILY, M=MORNING, AFTERNOON, SOME SPECIALS
240569		3	12		WEDNESDAYS, WHEN IT IS POSSIBLE, SOME SPECIALS

PUBLICATIONS..... -

STATION...(61).....BUNIA RUAMPARA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(72).....BYRD
ORGANISATION.....NOAA-ARL, RF 3292, BOULDER, COLORADO 80302, USA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
090862	301168	1	03	80	3 OBSERVATIONS OF TOTAL OZONE DAILY,OBSERVATIONS MADE ON A,C,D WAVELENGTHS AT TWO HOURS BEFORE SOLAR NOON, AT SOLAR NOON, AND TWO HOURS AFTER SOLAR NOON. OBSERVATIONS MADE ON MOON DURING DARK PERIOD.
270962	300964	2	03	72	UNKEHR, L=A,C,D NO REGULAR SCHEDULE
130962	131062	2	03	72	UNKEHR, L=A,C,D NO REGULAR SCHEDULE
111163	221266	3	XX		WEDNESDAYS,00Z ONE FLIGHT A WEEK 1964 AND 1965(INST.TYPE 13 AND 16)
020266	260966	3	16		WEDNESDAYS,00Z ONE FLIGHT A MONTH

PUBLICATIONS.....ESSA ERL 80-APCL 3 VOLUME 2, OZONESONDE OBSERVATIONS 1962-1966

STATION...(200).....CACHOEIRA PAULISTA
ORGANISATION.....CNPQ - INSTITUTO DE PESQUISAS ESPACIAIS (INPE)
INFORMATION.....DIRECTOR, INPE, CX POSTAL 515, 12200 SAO JOSE DOS CAMPOS, SP, BRAZIL

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
080574		1	03	114	L=AD, CC, 3 TO 5 TIMES DAILY M=NOON, 2.0 AND 3.0
		2	03	114	WHEN IT IS POSSIBLE, L=A,C,D

PUBLICATIONS..... -

STATION...(38).....CAGLIARI/ELMAS
ORGANISATION.....ITALIAN AIR FORCE, ITAV 3 REPARTO, ROMA EUR
INFORMATION.....OSSMA, 09034 CAGLIARI, ITALY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
300654	311254	1	03	48	C, 3 TO 6 OBSERVATIONS OF TOTAL OZONE EVERY DAY
010155	311256	1	03	48	C,AD,3 TO 6 OBSERVATIONS OF TOTAL OZONE EVERY DAY
010157		1	03	48	AD,5 OBSERVATIONS OF TOTAL OZONE EVERY DAY,WHENEVER CONDITIONS ARE SUITABLE
010267		3	01		WEDNESDAYS OR SATURDAYS,12Z, MODIFIED BREWER INSTRUMENT

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(193).....CAIRNS
ORGANISATION.....BUREAU OF METEOROLGY. AUSTRALIA.
INFORMATION.....G.P.O. BOX 1289K MELBOURNE, VICTORIA. AUSTRALIA.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020775		1	03	81	2 OBSERVATIONS DAILY
010181		1	3	81	
150583					STATION TEMPORARILY CLOSED.

PUBLICATIONS..... -

STATION...(152).....CAIRO
ORGANISATION.....THE METEOROLOGICAL AUTHORITY, KOUBRY-EL-QUOBBA, CAIRO
INFORMATION.....CHAIRMAN, BOARD OF DIRECTORS

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
280928	291029	1			DAILY, THESE OBSERVATIONS WERE TAKEN AT HELWAN OBSERVATORY LOCATED AT 29.52N, 31.18E
011167		1	03	96	6-10 OBS. EVERY DAY, M=1 TO 2, L=AD
210369		2	03	96	DAILY, L=3
010872	110674	1	03	96	L=AD,UP TO 8 HOURLY OBS. DAILY, DS/ZB ONLY, IRREGULAR.
010974		1	03	96	L=AD/C,UP TO 10 OBS. DAILY AT M=NOON,2 AND 3. IN CLOUDS L=AD/CC. NEW Q AND R-N TABLES (BELSK).

PUBLICATIONS.....HELWAN DATA PUBLISHED BY G.M.B.DOBSON, PROC.ROY.SOC.SER.A, VOL 129

STATION...(178).....CAIRO UNIVERSITY
ORGANISATION.....METEOROLOGY SEC., FACULTY OF SCIENCE, CAIRO UNIVERSITY, CAIRO, A.R.EGYPT
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010756	311266	1	03	67	SPORADIC, TOTAL OZONE RECORDS NOT AVAILABLE
010167		1	03	67	5 DAYS PER WEEK, 3 TO 5 OBS. PER DAY, M=1 TO 2,L =AD

PUBLICATIONS..... -

STATION...(36).....CAMBORNE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(108).....CANTON ISLAND NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(230).....CAPE GRIM
ORGANISATION.....CAPE GRIM ATMOSPHERIC OBSERVATORY,DEPT.SCIENCE-TECHNOLOGY,AUSTRALIA
INFORMATION.....DIVISION OF ATMOSPHERIC PHYSICS,CSIRO,STATION ST.,ASPENDALE VIC 3195,AUST.

PERICD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
121076		5	XX		INST. ETHYLENE CHEMILUMINESCENT

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(20).....CARIBOU
ORGANISATION.....NOAA-ARL, RF3292, BOULDER, COLORADO, 80302, U.S.A.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
0458	1259	1			NO DETAILS,THIS REFERENCE TAKEN FROM WODC DATA FILES
010163		1	03	34	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D WAVELENGTHS AT NOON, AND TWO HOURS BEFORE AND AFTER NOON

PUBLICATIONS..... -

STATION...(158).....CASABLANCA
ORGANISATION.....METEOROLIGIE NATIONALE AEROPORT, CASABLANCA-ANFA, MAROC
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010469		1	03	106	UNE OBS PAR JOUR, L = A,C, D
010174	310875	1	03	106	RECALIBRATION CONSTANTE EXTRA-TERRESTRE

PUBLICATIONS..... -

STATION...(124).....CERRILLO
ORGANISATION.....INST. DE GEOFISICA, 3 PISO TORRE DE CIENCIAS, C.V. MEXICO 20 D.F.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010167	300671	1	03		3 TO 5 OBSERVATIONS EVERY DAY EXCEPT SUNDAY

PUBLICATIONS..... -

STATION...(138).....CHRISTCHURCH NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(224).....CHILCA
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VA 23337 USA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
052375	052575	3	XX		EQUATORIAL MAGNETIC DISTURBANCE ECC

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

OZONE STATION CATALOGUE/CATALOGUE DES STATIONS D'OBS. DE L'OZONE

STATION...(77).....CHURCHILL
ORGANISATION.....A.D.M.A.,ATMOSPHERIC ENVIRONMENT SERVICE,4905 DUFFERIN ST.,DOWNSVIEW, ONTARIO, CANADA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
101264	220578	1	03	60	AT LEAST 5 OBSERVATIONS DAILY, L=AD,CD,CC' M=MOON, 2.0
101264	310176	1	03	60	AND IN RANGE 2.5 TO 3.0, LARGER M-VALUES WINTER MONTHS
230578	230979	1	3	18	MOON OBSERVATIONS, L=AD,CD M=2.5,2.0,1.6,UPPER TRANSIT
240979		1	3	60	USUALLY WINTER MONTHS, WEATHER PERMITTING
101264	220578	2	03	60	SAME PROGRAM
290163	311265	3	13		SAME PROGRAM
191073	220578	3	10		L=A,C,D AM AND/OR PM
230578		3	XX		WEDNESDAY AT 12Z, U.S. A.F.C.R.L. PROJECT
					WEDNESDAY AT 12Z, EXTRA ASCENTS MADE ON REQUEST
					ECC SAME PROGRAM

PUBLICATIONS.....MONTHLY OZONE SUMMARY, ADDRESS AS ABOVE.

STATION...(198).....COLD LAKE
ORGANISATION.....A.D.M.A., ATMOSPHERIC ENVIRONMENT SERVICE, 4905 DUFFERIN ST., DOWNSVIEW, ONTARIO, CANADA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
170277	200277	3	10		7 ASCENTS TO SUPPORT HIGH ALTITUDE BALLOON PROJECT
130278	150278	3	10		5 ASCENTS IN SUPPORT OF HIGH ALTITUDE BALLOON PROJECT
010279	130279	3	XX		ECC.20 ASCENTS IN SUPPORT OF HIGH ALTITUDE BALLOON PROJ.

PUBLICATIONS..... -

STATION...(198).....COLD LAKE
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VA 23337, USA.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
0277		3	XX		(ECC) LAUNCHES MADE IN SUPPORT OF SATELLITE OVERPASSES

PUBLICATIONS..... -

STATION...(196).....COLOGNE
ORGANISATION.....INST. FUR GEOPHYSIK/METEOROLOGIE, UNIVERSITAT ZU KOLN, KOLN-UNDENTHAL,
INFORMATION.....ALBERTUS-MAGNUS-PLATZ,D-5000,KOLN 41

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010176		1	03	44	OCCASIONAL DIRECT SUN OBS. FOR INDIVIDUAL RESEARCH
0480		5	XX	M- 2	4 OBS.,30 MINUTE MEAN VALUES COMPUTED,INST.BENDIX
0177	0480	5	XX		24 HR. MEAN VALUES AVAILABLE,INST. TYPE 10+ATTMANNSP.
		3	12		OCCASIONALLY WHEN CONDITIONS SUITABLE

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(125).....COLOMB-BECHAR NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(236).....COOLIDGE FIELD
CRGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERICD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
C10976	100976	3	XX		SPECIAL PROJECT ECC

PUBLICATIONS..... -

STATION...(84).....DARWIN
CRGANISATION.....DIVISION ATMOSPHERIC PHYSICS, C. S. I. R. O.
INFORMATION.....STATION ST., ASPENDALE, VICTORIA, AUSTRALIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0566		1	03	81	2 TOTAL OZONE OBS. EVERY DAY
0466	1274	2	03	81	1 UMKEHR OBS., EVERY WEEK L=C
C11070	1274	5	01		CONTINUCUS (BREWER SURFACE OZONE BUBBLER) STATION CLOSED

PUBLICATIONS..... -

STATION...(238).....DENVER
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
240577		3	XX		SPECIAL PROJECT ECC

PUBLICATIONS..... -

STATION...(5).....DIKSON ISLAND
CRGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
080757	290857	1	09		M=NOON TO 3.0
200458	270959	1			M=NOON TO 4.5 L=SPECTROPHOTOMETER WITH DIFRACTION GRID
220660	300972	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
C11072		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(60).....DRESDEN
CRGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010359	311059	1	03	71	3 TO 5 OBSERVATIONS WHENEVER CONDITIONS WERE SUITABLE
C10152	300653	5	02		3 OBSERVATIONS DAILY
010753	311254	5	02		6 OBSERVATIONS DAILY
010155	311261	5	02		12 OBSERVATIONS DAILY
010162	310764	5	02		4 OBSERVATIONS DAILY
010864	310368	5	02		8 OBSERVATIONS DAILY
C10468	310882	5	02		4 OBSERVATIONS DAILY
011072		5	XX		CHROMIC ACID FILTERS ADDED JANUARY 1 1972 TO REMOVE S02 MODIFIED ELECTROCHEMICAL CONTINUOUS REGISTRATION.

PUBLICATIONS.....TOTAL OZONE.1959,AVAILABLE IN JEY CENTRE GENEVA
SURFACE OZONE.DEUTSCHES METEOROLOGISCHES JAHRBUCH,TEIL IV,HEFT 2
H.MROSE,W.WARMBT,GEOD.GEOPHYS.VEROEFFTL.NKGG DER DDR,R.II,H 18(1974)58-66

STATION...(75).....DUMDUM
CRGANISATION.....DIRECTOR GEN. OF CBSERVATORIES,INDIA MET.DEPT,LODI ROAD, NEW DELHI-3, INDIA
INFORMATION.....DIRECTOR RADIO-METEOROLOGY, INDIA MET. DEPT, LODI ROAD, NEW DELHI-3, INDIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010263	301163	1	03	39	L=AD,ONE DIRECT SUN OBSERVATION PER DAY,M BETWEEN 2 AND3
011063	301163	2	03	39	L=C,ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
011263	311263	1	03	39	L=AD,TWO DIRECT SUN OBSERVATIONS PER DAY,M BETWEEN 2 AND 3 FORENOON AND AFTERNOON
C10164	180273	1	03	39	L=AD FIVE DIRECT SUN OBS. PER DAY M=3,2 NOON
C10164	310164	2	03	39	L=C, ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
010264	180273	2	03	39	L=A,C,D ONCE PER DAY WHEN CONDITIONS ARE SUITABLE STATION CLOSED FEBRUARY 18 1973

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS
(TOTAL OZONE IN WMO FORM, UNKEHR RAW(NNN)DATA)

STATION...(28).....DUMONT D'URVILLE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(113).....DUSHANBE
CRGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
030763	140872	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150872		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS.....

STATICN WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(21).....EDMONTON STONY PL.
ORGANISATION.....A.E.W.A.,ATMOSPHERIC ENVIRONMENT SERVICE,4905 DUFFERIN ST.,DOWNSVIEW, ONTARIO, CANADA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
070757	250369	1	03	18	AT LEAST FIVE OBS.DAILY L=AD,BD,CD,CC',M=NOON,2.0,2.5 TO 3.0, LARGER M-VALUES WINTERTIME. L=BD DISCONTINUED 1964
070757	250369	2	03	18	NOON OBS.L=AD,CD,M=2.5,2.0,1.6,UPPER TRANSIT, IN WINTER
260369	310375	1	03	102	L=A,C,D AM AND/OR PM. L=[DISCONTINUED 1959
260369	310375	2	03	102	SAME PROGRAM AS ABOVE FOR NO.18, NOON OBS. CEASED FEB/73
010475	310876	1	03	18	NO OTHER CHANGE
010475	310876	2	03	18	NO OTHER CHANGE
010976		1	03	102	NO OTHER CHANGE
010976		2	03	102	NO OTHER CHANGE
191072	210979	3	10		WEDNESDAY AT 12Z, EXTRA ASCENTS MADE ON REQUEST
220879		3	XX		ECC.SAME PROGRAM
					PLEASE NOTE, PRIOR TO 17 FEB.1966, STATION LOCATED AT EDMONTON 72079, 53.34N, 113.31W, ELEV. 668 M. SUBSEQUENT LOCATION AS IN STATION LISTING

PUBLICATIONS.....MONTHLY OZONE SUMMARY, ADDRESS AS ABOVE.
CANADIAN METEOROLOGICAL MEMOIRS NO.8, 1961, ADDRESS AS ABOVE.

STATION...(213).....EL ARENOSILLO
ORGANISATION.....INTA-CONIE, PASEO DEL PINTOR ROSALES 34, MADRID 8, SPAIN
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010176	310577	3	99		VARIABLE, AT 13Z
010176		1	03		PROGRAM FOR 1976 AND 1977 TO BE CONFIRMED IN NEXT CAT.
011078	221278	1	03		L=AD 3 OBSERVATIONS DAILY AT M=NOON,MORNING AND AFTERNOO
060179	311279	1	03		L=AD 5 OBSERVATIONS DAILY AT M=NOON, 2.0 AND 3.0
060179	150279	3			MONDAY,WEDNESDAY AND FRIDAY, AT 13Z, KONVYR
150279	311279	3			ONCE PER WEEK ON WEDNESDAY, AT 13Z, KONVYR

PUBLICATIONS..... -

STATION...(37).....ELBROS MTN. NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(39).....ESKDALEMUIR NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(105).....FAIRBANKS
ORGANISATION.....NOAA-ARL, RF3292, BOULDER, COLORADO, 80302, U.S.A.
INFORMATION.....SAME AS OPERATING AGENCY.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
300163	300964	3	13		1 OZONESONDE FLIGHT PER WEEK ON WEDNESDAY
221264	190672	1	03	76	2 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D WAVELENGTHS DURING DAYLIGHT MONTHS AT NOON AND
101164	291265	3	XX		BETWEEN TWO HOURS BEFORE AND AFTER NOON WEDNESDAYS,OOZ.INSTRUMENT TYPES 13 AND 16
					DOBSON PROGRAM TERMINATED AT FAIRBANKS,ALASKA IN JUNE 72

PUBLICATIONS..... -

STATION...(86).....FEODOSIJA(KARADAG)
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
100660	160669	1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
170669		1	XX		L=C EVERY DAY 14=ZENITH SKY OBS. INSTRUMENTS TYPES 3 AND 14 BOTH IN USE

PUBLICATIONS.....OD USSR-64-65,66-67

STATION...(172).....FICHTELBERG
ORGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010154	311263	5	02		4 OBSERVATIONS DAILY
010164	300467	5	02		8 OBSERVATIONS DAILY
010567	310581	5	02		4 OBSERVATIONS DAILY
010681		5	XX		MODIFIED ELECTROCHEMICAL CONTINUOUS REGISTRATION

PUBLICATIONS..... - CHROMIC ACID FILERS ADDED JANUARY 1,1972 TO REMOVE SO 2

STATION...(177).....FLAGSTAFF NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(179).....FLETCHER ICE ISLND NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(66).....FORT COLLINS NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(203).....FT. SHERMAN
ORGANISATION.....NOAA-ARL AND NASA
INFORMATION.....NOAA-ARL,RF 3292,BOULDER,COLORADO,80302,U.S.A.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
240777	310777	3			NO PROGRAM LISTED

PUBLICATIONS..... -

STATION...(63).....FORT WORTH NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(244).....FRESNO
ORGANISATION.....NOAA
INFORMATION.....NOAA-ERL-ARL,R/E/AR4, 325 BROADWAY,BOULDER,COLORADO 80303

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
220683		1	03	94	3 OBSERVATIONS OF TOTAL OZONE DAILY, OBSERVATIONS MADE ON A,C,D WAVELENGHTS AT NOON AND TWO HOURS BEFORE AND AFTER NOON

PUBLICATIONS..... -

STATION...(80).....GAN
ORGANISATION.....DIRECTOR GEN.,METEOROLOGICAL OFFICE,LONDON RD.,BRACKNELL RG 12 2SZ ENGLAND
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010164	310567	1	03	35	DAILY, AD, SOME SPECIALS, NOON
010766	310766	2	03	35	UMKEHR
011067	311067	1	03	35	DAILY, AD, SOME SPECIALS, NOON
010969	300975	1	03	35	DAILY, AD STATION CLOSED MAR 1976

PUBLICATIONS..... -

STATION...(215).....GARMISCH/P.
ORGANISATION.....INST.F.ATMOSPHAERISCHE UMWELTFORSCHUNG,8100 GARMISCH-PARTENKIRCHEN,FED.REP. GERMANY
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010179	311279	1			MON-FRI IF POSSIBLE 1-8 OBS.MATTHEWS FILTER PHOTOMETER
010179	311279	3			SPECIAL SERIES UNDER SPECIAL CONDITIONS, DAILY DURING A MEASURING PERIOD.(ECC KOMHYR)
010179	311279	5			CONTINUOUSLY (ECC KOMHYR)
		5			PERIODICALLY IN 1982. NO PROGRAM GIVEN
010179	311279	5			CONTINUOUSLY AT STATION WANK ELEV. 1780 M (ECC KOMHYR)
010179	311279	5			CONTINUOUSLY AT STN. ZUGSPITZE ELEV. 2963 M (ECC KOMHYR)

PUBLICATIONS..... -

STATION...(228).....GIMLI
ORGANISATION.....A.D.M.A.,ATMOSPHERIC ENVIRONMENT SERVICE,4905 DUFFERIN ST.,DOWNSVIEW, ONTARIO, CANADA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
150780	030880	3	XX		9 ECC ASCENTS FOR STRATOSPHERIC BALLOON SUPPORT

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(76).....GOOSE
ORGANISATION.....A.D.M.A.,ATMOSPHERIC ENVIRONMENT SERVICE,4905 DUFFERIN ST.,DOWNSVIEW, ONTARIO, CANADA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010162		1	03	62	AT LEAST 5 OBSERVATIONS DAILY, L=AD,CD,CC' N=NOON,2.0 AND IN RANGE 2.5 TO 3.0, LARGER N-VALUES WINTER MONTHS
010162	310173	1	03	62	NOON OBSERVATIONS,L=AD,CD N=2.5,2.0,1.6,UPPER TRANSIT
010163		2	03	62	USUALLY WINTER MONTHS, WEATHER PERMITTING
0163	1265	3	13		L=A,C,D AM AND/OR PM
0567	0569	3	10		WEDNESDAY AT 12Z U.S. A.F.C.R.L. PROJECT
180669	310880	3	10		WEDNESDAY AT 12Z U.S. A.F.C.R.L. PROJECT
020980		3	XX		WEDNESDAY AT 12Z, EXTRA ASCENTS ON REQUEST
					ECC SONDE, SAME PROGRAM

PUBLICATIONS.....MONTHLY OZONE SUMMARY, ADDRESS AS ABOVE.

STATION...(22).....GREEN BAY
ORGANISATION.....NOAA-ARL, RF3292, BOULDER, COLORADO, 80302, U.S.A.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010358	311259	1			NO DETAILS,THIS REFERENCE TAKEN FROM WODC DATA FILES
020163	300675	1	03	38	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D
					WAVELENGTHS AT NOON, AND TWO HOURS BEFORE AND
					AFTER NOON
					TOTAL OZONE PROGRAM TERMINATED JUNE 30,1975

PUBLICATIONS..... -

STATION...(22).....GREEN BAY
ORGANISATION.....US WEATHER BUREAU
INFORMATION.....CRRU AFCRL, L G HANSCOM FLD., BEDFORD, MASSACHUSETTS, U.S.A.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
281064	241265	3	13		1 OZONESONDE FLIGHT PER WEEK ON WEDNESDAY

PUBLICATIONS..... -

STATION...(237).....GREAT FALLS
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
190577	230577	3	XX		SPECIAL PROJECT ECC

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(78).....GULMARG NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(183).....GUREV
ORGANISATION.....HYDRO-MET SERVICE OF USSR, ULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0966	1167	1			NO DETAILS

PUBLICATIONS.....OD USSR

STATION...(6).....HABBANIYA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(69).....HALLETT NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(57).....HALLEY BAY
ORGANISATION.....BRITISH ANTARCTIC SURVEY, MADINGLEY ROAD, CAMBRIDGE, ENGLAND CB3 0ET
INFORMATION.....B.G.GARDINER, ATMOSPHERIC SCIENCES DIVISION, BRITISH ANTARCTIC SURVEY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
170956	200163	1	03	0031	FROM 170956 TO 200172: DAILY, M=3.0,2.0,MOON,2.0,3.0.
170956	200163	2	03	0031	FROM 210172 TO 040275: DAILY, M=2.6,2.0,MOON,2.0,2.6.
110263	230165	1	03	0088	FROM 050275: DAILY, M=2.6,2.0,2.0,2.6. EXTRAS AT M=4.2,
110263	230165	2	03	0088	3.4,3.4,4.2 WHEN M EXCEEDS 2.4 AT MOON. ROUTINE OBS ON
260265	020268	1	03	0073	ZENITH L=AD FOR M LESS THAN 2.4, L=CC* FOR M BETWEEN 2.4
260265	020268	2	03	0073	AND 4.4. ALSO DIRECT SUN/MOON WHEN POSSIBLE, L=AD OR CD.
030268	230182	1	03	31	UMKEHRS WHEN CONDITIONS SUITABLE, L=A,C,D.
030268	230182	1	03	31	NO CHANGE
230182		1	03	123	NO CHANGE
230182		2	03	123	NO CHANGE

PUBLICATIONS.....BRITISH ANTARCTIC SURVEY SCIENTIFIC REPORTS: NO. 90.

STATION...(150).....HANTY-MANSIJSK NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(40).....HAUTE PROVENCE OBS
ORGANISATION.....LAB.PHYSIQUE DE L'ATMOSPHERE,TOUR 14,4,PLACE JUSSIEU 75230,PARIS CEDEX 05 FRANCE
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
201057	050358	1	XX		BY STARLIGHT, PRISMS QUARTZ SPECTROGRAPH
141059	301259	1	03		

PUBLICATIONS.....METEOROLOGIE ET OZONE, AGI PARTICIPATION FRANCAISE,SERIE II FASC.3
IGY FILES

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(40).....HAUTE PROVENCE OBS
ORGANISATION.....UNIVERSITE DE REIMS,FACULTE DES SCIENCES,B.P.347-51062 REIMS,CEDEX,FRANCE
INFORMATION.....DR. PIERRE MARCHE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
681		1	3		AUTOMATED DOBSON SINCE 1983,NO DETAILS YET AVAILABLE
681		2	3		AUTOMATED DOBSON SINCE 1983,NO DETAILS YET AVAILABLE

PUBLICATIONS..... -

STATION...(114).....HEISS ISLAND
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
260358	311272	1	14		L=3140A AND 3690A N 1 TO 7 HOURLY OBSER. IN DIRECT SUN
010173		1	14		AND MOONLIGHT WHENEVER CONDITIONS ARE SUITABLE L=2980A AND 3260A N=1 TO 7 HOURLY OBSER. IN DIRECT SUN
					OR ZENITH SKY EVERY DAY WHENEVER CONDITIONS ARE SUITABLE

PUBLICATIONS.....1958-59 NO PUBLICATIONS

STATION...(161).....HENSBY NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(109).....HILO
ORGANISATION.....NOAA/ARL/GMCC R/E/AR4
INFORMATION.....US DEPT. OF COMMERCE, 325 BROADWAY, BOULDER, COLORADO 80303, U.S.A.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
171264	151265	3	13		WEDNESDAYS 00Z, APPROXIMATELY ONE FLIGHT A MONTH
241169		3	XX		THURSDAY AT 20Z,INST.ELECTROCHEMICAL CONCENTRATION CELL
210982		3	XX		TYPE=ECC WEEKLY SOUNDINGS

PUBLICATIONS..... -

STATION...(92).....HOBART
ORGANISATION.....C.S.I.R.O. ASPENDALE
INFORMATION.....BUREAU OF METEOROLOGY. 150 LONSDALE STREET, MELBOURNE 3001. AUSTRALIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0667	0673	1	03	12	2 TOTAL OZONE OBS. EVERY DAY
0667	0673	2	03	12	1 UMKEHR OBS. PER WEEK FOR L=C
1174		1	03	78	NO OTHER CHANGE
010181	250581	1	3	78	
260581		1	3	12	
010181	250581	2	3	78	
260581		2	3	12	

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(99).....HOHENPEISSENBERG
ORGANISATION.....DEUTSCHER WETTERDIENST ZENTRALAMT, 605 OFFENBACH, FED.REP. GERMANY
INFORMATION.....DEUTSCHER WETTERDIENST MET.OBS., 8126 HOHENPEISSENBERG, FED.REP. GERMANY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
110767	291168	1	03	104	5 OBSERVATIONS, MONDAY TO FRIDAY, M=NOON TO 3.0,AD,C
011268		1	03	0104	3-5 OBSERVATIONS,DAILY,M=NOON TO 3.0,L=AD,C
080365	191066	3	13		WEDNESDAYS, 8Z,
021166	171177	3	10		WEDNESDAY,08Z,AND SPECIAL WITH EUROPEAN NETWORK
211177		3	10		NOV.TO APRIL MONDAY,WEDNESDAY,FRIDAY 08Z,OTHER 2 TIMES
080868	311270	5	05		PARTLY ANALOG REGISTRATION
010171		5	HP		(WET CHEMICAL TYPE) CONTINUOUS ANALOG REGISTRATION AND DIGITAL HOURLY MEANS

PUBLICATIONS..... *W.ATTMANNSPACHER: METEOR.ROSCH. 24 (1971) NR. 6 P. 183-188
DEUTSCHER WETTERDIENST SONDERBEOBACHTUNGEN DES MET.OBS.HOHENPEISSENBERG

STATION...(96).....HRADEC KRALOVE
ORGANISATION.....HYDROMETEOROLOGICAL INSTITUTE
INFORMATION.....DIRECTOR HYDROMETEOR.INSTITUTE,HOLECKOVA 8,PRAHA-SMICHOV,CZECHOSLOVAKIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010161		1	03	74	1 TO 5 OBSERVATIONS OF TOTAL OZONE EVERY DAY WHENEVER CONDITIONS ARE SUITABLE, M=NOON TO 3.0, L=AD,C
010157	311262	5	05		5 DAILY
300779	101280	3	99		WEDNESDAYS, WHEN IT IS POSSIBLE, SOME SPECIALS.GDR SONDE
010183	300483	3	99	GDR	SONDE

PUBLICATIONS..... -

STATION...(110).....HUANCAYO
ORGANISATION.....NOAA-ARL AND INSTITUTO GEOFISICO DEL PERU
INFORMATION.....NOAA-ARL, RF3292, BOULDER, COLORADO, 80302, U.S.A.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
140264	160982	1	03	87	3 OBS.DAILY ON A,C,D AT NOON,+ 2 HRS. BEFORE + AFTER
160982		1	03	91	NO PROGRAM CHANGE.

PUBLICATIONS..... -

STATION...(142).....IGARKA
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010864		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY WHENEVER CONDITIONS ARE SUITABLE

PUBLICATIONS.....OD USSR 1964-65,1966-67

STATION...(168).....ILE NOUV.AMSTERDAM NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(176).....INSELSBERG
ORGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR, 1500 POTSDAM, ALBERT-EINSTEIN-STR .42-46, GERMAN DEMOCRATIC REPUBLIC
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010268	130678	5	02		4 OBSERVATIONS DAILY
					CHROMIC ACID FILTERS ADDED JANUARY 1 1972 TO REMOVE SO2

PUBLICATIONS..... -

STATION...(180).....INVERCARGILL
ORGANISATION.....NEW ZEALAND METEOROLOGICAL SERVICE
INFORMATION.....THE DIRECTOR, N.Z.MET.SERV. P.O.BOX 722, WELLINGTON, NEW ZEALAND

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
200670		1	3	17	ONE DAILY , M=NEAR NOON, L=AD,C,C'
010377		1	3	17	TWO DAILY , L = AD,C,C_
190371		2	3	17	WHEN WEATHER SUITABLE, L=C
0380		5	10		CONTINUOUS RECORDING (DASIBI)

PUBLICATIONS..... -

STATION...(85).....IRKUTSK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010760	310771	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT
					SUN OR ZENITH SKY EVERY DAY
010871		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(41).....JUNGFRAUJOCH NOW OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(7).....KAGOSHIMA
CRGANISATION.....DIRECTOR GEN.,JAPAN METEOROLOGICAL AGENCY,OTE-MACHI CHIYODA-KU TOKYO JAPAN
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010358	310359	1	04	5705	L=AD, 3 TO 5 OBSERVATIONS DAILY AT M=NOON 2.0 AND 3.0
010358	310359	2	04	5705	L=C, ONCE A DAY WHENEVER CONDITIONS ARE SUITABLE
140759	310063	1	04	5705	NO CHANGE
140759	311063	2	04	5705	NO CHANGE
011163	311267	1	04	5706	NO CHANGE
011163	311269	2	04	5706	NO CHANGE
010168	311269	1	04	5706	L=AD, 4 OBSERVATIONS DAILY AT M=1.5 AND 2.5
010170	311276	1	04	5705	NO CHANGE
010170	311276	2	04	5705	NO CHANGE
010177	311283	1	04	5704	NO CHANGE
010177	311283	2	04	5704	NO CHANGE
010184		1	04	5705	NO CHANGE
010184		2	04	5705	NO CHANGE
C51268	311274	3	XX		THURSDAY,062 SPECIAL, INSTRUMENT K-CARBON
010175		3	XX		VARIABLE, INSTRUMENT KI-CARBON

PUBLICATIONS.....AEROLOGICAL DATA OF JAPAN 1958-1972 (JAPAN METEOROLOGICAL AGENCY)
AEROLOGICAL DATA OF JAPAN SPL VOLS 1968-1983 (JAPAN METEROLOGICAL AGENCY

STATION...(173).....KALTENNORDHEIM
CRGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERICD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
161154	300455	5	02		3 OBSERVATIONS DAILY
C70555	311280	5	02		4 OBSERVATIONS DAILY
010181	310381	5	XX		MODIFIED ELECTROCHEMICAL CONTINUOUS REGISTRATION CHROMIC ACID FILTERS ADDED JANUARY 1,1972 TO REMOVE SO 2

PUBLICATIONS..... -

STATION...(128).....KARAGANDA
CRGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
111163		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY

PUBLICATIONS.....OD USSR-63,64-65,66-67

STATION NNO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

OZONE STATION CATALOGUE/CATALOGUE DES STATIONS D'OBS. DE L'OZONE

STATION...(87).....KIEV
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOHOSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
060660	300971	1	14		STATION LOCATION UP TO 31/03/69 50.24N,30.27E 166 M INSTRUMENT RE-INSTALLED AT KIEV'S SUBURB 01 APRIL 1969 L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY L=2980A AND 3260A M=SAME AS ABOVE
011071		1	14		
PUBLICATIONS..... -					

STATION...(211).....KING EDWARD POINT
ORGANISATION.....BRITISH ANTARCTIC SURVEY, MADINGLEY ROAD, CAMBRIDGE, ENGLAND CB3 0ET
INFORMATION.....B.G.GARDINER, ATMOSPHERIC SCIENCES DIVISION, BRITISH ANTARCTIC SURVEY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME	
100371	170174	1	03	103	M=3.0,2.0,MOON	EXTRAS AT M=4.2,3.4 WHEN M EXCEEDS 2.4
180174	090275	1	03	103	M=2.6,2.0,MOON	AT MOON.ROUTINE OBS ON ZENITH L=AD FOR
100275	020482	1	03	103	M=2.6,2.0	M LESS THAN 2.4,L=CC' FOR M=2.4-4.4,
100371	020482	2	03	103		ALSO DS SUN/MOON WHEN POSS.,L=AD OR CD
PUBLICATIONS.....		BRITISH ANTARCTIC SURVEY SCIENTIFIC REPORTS: NO. 90.			WHEN CONDITIONS ARE SUITABLE, L=A,C,D	

STATION...(83).....KINGSTON
ORGANISATION.....PHYSICS DEPT, UNIVERSITY OF THE WEST INDIES, KINGSTON, JAMAICA,WEST INDIES.
INFORMATION.....HEAD OF DEPT OF PHYSICS (SAME ADDRESS)

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010470		1	03	67	DAILY, 2 TO 4 OBS. L=AD ONLY (M LESS THAN 2.4)
010470		2	03	67	2 OR 3 OBS PER WEEK, WHEN POSSIBLE, L=A,C,D
PUBLICATIONS..... -					

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(8).....KODAIKANAL
ORGANISATION.....DIRECTOR GENERAL OF OBSERVATORIES
INFORMATION.....DY. DIRECTOR GENERAL OBS.(INSTS.),THE OBSERVATORY,LODI RD.,NEW DELHI 110003 INDIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010757	280259	1	03	45	L=CC° DIRECT SUN OBS. DAILY AT TIME SPECIFIED
010459	311259	1	03	45	L=CC° DIRECT SUN OBS. DAILY AT TIME SPECIFIED
010160	311260	1	03	45	L=CC° ONE DIRECT SUN OBS, PER DAY N BETWEEN 2 AND 3
010161	301163	1	03	45	L=AD, TWO TO THREE DIRECT SUN OBS. PER DAY N BETWEEN 2 AND 3 FORENOON OR AFTERNOON
011263 0158	0459	1 2	03	45	L=AD FIVE DIRECT SUN OBS. PER DAY N=3,2 NOON NO DETAILS,THIS REFERENCE TAKEN FROM WODC DATA FILES
011263	311263	2	03	45	L=C, ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
010164		2	03	45	L=A,C,D ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
190771		3	XX		INDIAN ELECTROCHEMICAL. NO DETAILS GIVEN.
040677		5	XX		INDIAN ELECTROCHEMICAL. NO DETAILS GIVEN.

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS (TOTAL OZONE AT TIME SPECIFIED UNTIL MARCH 1963, IN WMO FORM FROM APRIL,1963 ONWARDS, UNKNR RAW(MMM)DATA)

STATION...(225).....KOUROU
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
200374	220374	3	EC		INTERNATIONAL COMPARTSON

PUBLICATIONS..... -

STATION...(243).....KRASNOYARSK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010765		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY

PUBLICATIONS.....OD USSR 1964-65, 1966-67

STATION...(115).....KUIBYSHEV
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
040762	140872	1	14		L=3140A AND 3690A N=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150872		1	14		L=2960A AND 3260A N=SAME AS ABOVE

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(209).....KUNMING
ORGANISATION.....INSTITUTE OF ATMOSPHERIC PHYSICS ACADEMIA SINICA PEKING CHINA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010180		1	3	03	L=AD,3 TO 5 OBSERVATIONS DAILY AT M=NOON,2.0 AND 3.0

PUBLICATIONS..... -

STATION...(221).....LEGIONOWO
ORGANISATION.....INSTITUTE OF METEOROLOGY AND WATER ECONOMY WARSAW PODLESNA 62 POLAND
INFORMATION.....AEROLOGY DIVISION 05-120 LEGIONOWO ZEGRZYNSKA 38 POLAND

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
170179		3	1		WEDNESDAY 12Z ONE FLIGHT A WEEK

PUBLICATIONS..... -

STATION...(42).....LENINGRAD,VKVO.
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010757	100369	1	XX		L=C M=NOON TO 3.0 / 14=IN ZENITH SKY AND NOON L=3140A AND 3690A
110369	310471	1	XX		L=AD OR C EVERY DAY/ 14=L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
010571		1	XX		TYPE 3=SAME AS ABOVE TYPE 14 L=2980A AND 3260A M=SAME AS ABOVE
					INSTRUMENT TYPES 3 AND 14 BOTH USED AS DESCRIBED ABOVE

PUBLICATIONS..... -

STATION...(1).....LEOPOLDVILLE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(43).....LERWICK
ORGANISATION.....DIRECTOR GEN.,M.O. 15, BEAUFORT PARK, WOKINGHAM, BERKSHIRE, RG11 3DW U.K.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010352	311266	1	03	07	DAILY, AD, C, CC', IN WINTER BD, SOME SPECIALS, NOON
010967	300677	1	03	32	SAME
010777		1	03	32	DAILY, AD, AM NOON PM APRIL TO SEPTEMBER, THEN DAILY, CD, C FOCUSSED SUN, OCTOBER TO MARCH

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(174).....LINDENBERG
ORGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010156	311266	5	02		4 OBSERVATIONS DAILY
041274	311279	3	XX		WEDNESDAYS, 11Z,SOME SPECIALS
010180		3	XX		PERIOD DECEMBER-APRIL:MONDAYS,WEDNESDAYS,FRIDAYS,11Z
					PERIOD MAY-NOVEMBER:WEDNESDAYS,11Z,SOME SPECIALS
					THE ELECTROCHEMICAL OZONESONDE IN OPERATION SINCE
					DECEMBER 1974 IS AN IMPROVED VERSION OF THE OZONESONDE
					USED AT INTERNATIONAL OZONESONDE INTERCOMPARISONS AT
					HOHENPEISSENBERG,FRG (SEE: BERICHTE DES DEUTSCHEN
					WETTERDIENSTES NR.120,BD16,1970)

PUBLICATIONS..... -

STATION...(82).....LISBON
ORGANISATION.....INSTITUTO NACIONAL DE METEOROLOGIA E GEOFISICA
INFORMATION.....DIRECTOR GENERAL RUA C DO AEROPORTO DE LISBOA 1700 LISBOA PORTUGAL

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
210660	070862	1	03	13	1 DAILY M=NOON TO 3.0, L=AD,C
230363	160564	1	03	13	SAME AS ABOVE
071164	300365	1	03	13	SAME AS ABOVE
300667		1	03	13	3 TO 5 DAILY M=NOON TO 3.0, L=AD,C
300667		2	03	13	ONCE A DAY WHENEVER WEATHER PERMITS, L=C
050771		5	XX		CONTINUOUS REGISTRATION (MAX PLANCK)
060673		3	10		ONCE A WEEK
					ELEVATION 81M PRIOR TO AUG 1/76

PUBLICATIONS..... -

STATION...(58).....LITTLE AMERICA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(235).....LONGVIEW
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
280776	021076	3	XX		SPECIAL PROJECT ECC

PUBLICATIONS..... -

STATION...(44).....LONGYEAR NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(166).....LUNZ AM SEE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(184).....LWOW
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
0166	1267	1			NO DETAILS

PUBLICATIONS.....OD USSR

STATION...(29).....MACQUARIE ISLAND
ORGANISATION.....C.S.I.R.O. ASPENDALE
INFORMATION.....BUREAU OF METEOROLOGY. 150 LONSDALE STREET, MELBOURNE 3001. AUSTRALIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
0757	0459	1	03	16	3 TO 5 TOTAL OZONE OBS. EVERY DAY
0757	0459	2	03	16	2 UMKEHR OBS. EVERY WEEK, L=C
011264		5	05		DAILY, 1 TO 4 OBSERVATIONS
0363	311272	1	03	078	3 TO 5 TOTAL OZONE OBS. EVERY DAY
0363	311272	2	03	078	2 UMKEHR OBS. EVERY WEEK, L=C
010173		1	03	0115	3 TO 5 TOTAL OZONE OBS. EVERY DAY
010173		2	03	0115	2 UMKEHR OBS. EVERY WEEK
010181	221081	1	3	115	NO PROGRAM CHANGES LISTED
231081		1	3	78	NO PROGRAM CHANGES LISTED
010181	221081	2	3	115	NO PROGRAM CHANGES LISTED
231081		2	3	78	NO PROGRAM CHANGES LISTED

PUBLICATIONS..... -

STATION...(134).....MADISON NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(97).....MAGNY-LES-HAMEAUX
ORGANISATION.....DIRECTION METEOROLOGIE - EERM - 77 RUE DE SEVRES 92106 BOULOGNE FRANCE
INFORMATION.....EERM-CENTRE RECHERCHES MAGNY-LES-HAMEAUX 78470 ST-REMY LES CHEVREUSE FRANCE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
1063	0569	1	03	49	ONE OBSERVATION DAILY
		3	15		EXPERIMENTAL
					THIS INFORMATION EXTRACTED FROM WMO/OMM 127.TP.57
120680		1	03	0085	EVERY WORKDAY WHEN ATMOSPHERIC CONDITIONS SUITABLE FOR
					DS AND/OR ZB OBSERVATIONS
					L = AD, CD M PREFERABLY NEAR NOON LARGER M-VALUES
					ON UNSCHEDULED BASIS

PUBLICATIONS..... -

STATION...(207).....MAHE, SEYCHELLES
ORGANISATION.....DIRECTOR GEN.,M.O. 15, BEAUFORT PARK, WOKINGHAM, BERKSHIRE, RG11 3DB U.K.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
011175		1	03	0057	DAILY, AD

PUBLICATIONS..... -

STATION...(218).....MANILA
CRGANISATION.....PAGASA(WEATHER BUREAU) 1424 QUEZON AVE., QUEZON CITY PHILIPPINES
INFORMATION.....DIRECTOR MANUEL C. BONJOC, 1424 QUEZON AVE., QUEZON CITY, PHILIPPINES

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
061278		1	03	0052	L=AD, CC',3 TYPES PER OBSERVATION,DAILY AT 02Z, 04Z, 06Z
010383		2	03	0053	BASED ON A PREPARED BUT FIXED SCHEDULE SO LONG AS WEATHER PERMITS

PUBLICATIONS..... -

STATION...(222).....MAPUTO
CRGANISATION.....SERVICO METEOROLOGICO DE MOZAMBIQUE BP 256 MAPUTO MOZAMBIQUE
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
±10579		1	14	136	L1=301,L2=326,7 OBSERVATIONS DAILY FROM Z=06TO 13

PUBLICATIONS..... -

STATION...(30).....MARCUS ISLAND NCN OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(144).....MARKOVO
CRGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
070265		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY AND 1 TO 5 HOURLY MOONLIGHT OBSERVATIONS WHENEVER CONDITIONS ARE SUITABLE

PUBLICATIONS.....OD USSR 64-65, 66-67

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(31).....MAUNA LOA
ORGANISATION.....NOAA
INFORMATION.....NOAA-ERL-ARL,R/E/AR4, 325 BROADWAY,BOULDER,COLORADO 80303

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
1157	1059	1			NO DETAILS,THIS REFERENCE TAKEN FROM WODC DATA FILES
020164	110582	1	03	63	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A.C,D
120582			03	61	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A.C,D WAVELENGTHS AT NOON AND TWO HRS.BEFORE AND AFTER NOON
120582	120284	1	03	65	SAME AS BELOW.
120384		1	03	76	3 OBSERVATIONS OF TOTAL OZONE DAILY, OBSERVATIONS MADE ON A,C,D WAVELENGTHS AT NOON AND TWO HOURS BEFORE AND AFTER NOON
120384		2	03	76	AUTOMATED DOBSON AUTOMATICALLY TAKES A DAILY AM AND PM UMKEHR WHEN SKY CONDITIONS PERMIT
200973		5	17		CONTINUOUS REGISTRATION. ECC
200873	311276	5	XX		TYPE=ELECTROCHEMICAL CONCENTRATION CELL(WET CHEMICAL). CONTINUOUS RECORDING REDUCED TO HOURLY MEANS.
260177		5	XX		TYPE=DASIBI UV ABSORPTION PHOTOMETER. CONTINUOUS RECORDING REDUCED TO HOURLY MEANS.

PUBLICATIONS..... -

STATION...(227).....MCDONALD OBS.
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
240469	020669	3	99		LASER AND WATER VAPOR EXPERIMENTS ECC

PUBLICATIONS..... -

STATION...(240).....MEININGEN
ORGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010582		5	XX		MODIFIED ELECTROCHEMICAL CONTINUOUS REGISTRATION

PUBLICATIONS..... -

STATION...(45).....MESSINA
ORGANISATION.....SERVIZIO METEOROLOGICO DELL'AERONAUTICA
INFORMATION.....UFFICIO DOCUMENTAZIONE-QUADRATO DELLA CONCORDIA 00144 ROMA ITALY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010155	010357	1	03	46	3 OBSERVATIONS OF TOTAL OZONE EVERY DAY
010357	300680	1	03	46	5 OBSERVATIONS OF TOTAL OZONE EVERY DAY OBSERVATIONS PROGRAM IN MESSINA INTERRUPTED.INSTRUMENT N°46 HAS BEEN MOVED TO BRINDISI SINCE 01 SEP.1982

PUBLICATIONS..... -

STATION...(192).....MEXICO CITY
ORGANISATION.....INSTITUTO DE GEOFISICA,CIUDAD UNIVERSITARIA, MEXICO 04510 D.F. MEXICO CITY
INFORMATION.....SAME AS OPERATING AGENCY.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010674		1	03	0098	L=AD 1 TO 5 OBSERVATIONS DAILY WHENEVER CONDITIONS ARE SUITABLE, EXCEPT SATURDAY AND SUNDAY.

PUBLICATIONS.....I.GALINDO/JL.BRAVO/S.SALAZA R.ATM 03.HAZE EXT+ANTHROP SPS 03. PROC JOINT SYMP ATM03. VOLIII. BERLIN 1977.NAT/KOM GEODASIE+GEOPHYS.AKAD WISSENS DDR

STATION...(88).....MIRNY
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
070260	281266	1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN

PUBLICATIONS..... -

STATION...(70).....MONT-LOUIS
ORGANISATION.....UNIVERSITE PIERRE ET MARIE CURIE PARIS VI
INFORMATION.....LABORATOIRE DE SPECTROSCOPIE MOLECULAIRE 4 PLACE JUSSIEU 75230PARIS

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010362		1	03	85	EVERY DAY IF POSSIBLE L=AD,BD,C
170663		2	03	85	WHEN POSSIBLE L=A,C,D
010668		6			OBS. IN INFRARED,HIGH DISPERSION

PUBLICATIONS..... -

STATION...(23).....MOOSONEE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(116).....MOSCOW
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020163	140972	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150972		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(9).....MOUNT ABU
ORGANISATION.....PHYSICAL RESEARCH LABORATORY
INFORMATION.....PHYSICAL RESEARCH LABORATORY, NAVRANGPURA, AHMEDABAD-380 009

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
211051	260557	1	03	39	SEVERAL OBSERVATIONS DAILY, L=CC'
211051	260557	2	03	39	WHEN LARGE OZONE CHANGES NOTED AND SKY FAVOURABLE,L=C
270557	170160	2	03	54	WHEN LARGE OZONE CHANGES NOTED AND SKY FAVORABLE,L=A,C,D
270557	170160	1	03	54	SEVERAL OBS. DAILY, L=AD, CC'
150659	311259	5	05		3 OBS. EVERY DAY, Z=4,8,12. (DATA NOT PUBLISHED)
131069		1	03	54	DAILY 2 TO 4 OBS., L=AD,B,CC'
131069		2	03	54	2 TO 3 OBS. PER WEEK, L=A,C,D. ALSO DAYS WHEN OZONE AMOUNT IS ABNORMAL
120482		1	3	54	NO PROGRAM LISTED
120482		2	3	54	NO PROGRAM LISTED

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS,SINCE JULY 1955

STATION...(46).....MURCHISON BAY NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(117).....MURMANSK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
091061	310771	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSER. IN DIRECT SUN OR ZENITH SKY EVERY DAY
010871		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(118).....MAGAEVO
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
250462	140972	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150972		1	14		L=2980A AND 3260A M=SAME ABOVE

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(190).....NAHA/KAGAMIZU
CRGANISATION.....DIRECTOR GEN.,JAPAN METEOROLOGICAL AGENCY,OTE-MACHI CHIYODA-KU TOKYO JAPAN
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
C10474	280278	1	04	5703	L=AD, 4 OBSERVATIONS DAILY AT H=NOON 1.5 AND 2.5
C10474	280278	2	04	5703	L=C, ONCE A DAY WHENEVER CONDITIONS ARE SUITABLE
C10378	311282	1	04	5705	NO CHANGE
C10378	311282	2	04	5705	NO CHANGE
010183		1	04	5706	NO CHANGE
010183		2	04	5706	NO CHANGE

PUBLICATIONS..... -

STATION...(175).....NAIROBI/DAGORETTI
CRGANISATION.....DEPARTMENT OF METEOROLOGY, UNIVERSITY OF NAIROBI
INFORMATION.....P.O. BOX 30197,NAIROBI, KENYA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
190484		1	03	18	AT LEAST 2 OBS DAILY, L=AD,CD, MU RANGE 3.0 AM TO 3.0 PM
100584		2	03	18	L=C AM AND/CR PM

PUBLICATIONS..... -

STATION...(223).....NAMPULA
CRGANISATION.....SERVICO METEROLOGICO DE MOCAMBIQUE BP 256 MAPUTO MOZAMBIQUE
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
270181		1	14	50	L1=301,L2=326,7 OBSERVATIONS DAILY FROM Z=06TO 13 THE NAMPULA STATION OZONOMETER IS TEMPORARILY INOPERATIO NAL

PUBLICATIONS..... -

STATION...(175).....NAIROBI/DAGORETTI NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(47).....NAPLES
CRGANISATION.....DIRETTORE, IST. FISICA TERRESTRE,LARGO S.MARCELLINO 10, 80138 NAPOLI,ITALIA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
C10458	311264	1	03	66	AD,C,CC',UP TO 4 OBS.,WEEKDAYS,ABOUT DIFFERENT M-VALUES
C10165		1	03	66	AD,C,CC',3 TO 6 OBS.WEEKDAYS, M ABOUT MIN.,2.0, 2.6,3.0.
C11068		2	03	66	L=C

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(106).....NASHVILLE
CRGANISATION.....NOAA-ARL, RF3292, BOULDER, COLORADO, 80302, U.S.A.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010163		1	03	79	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D WAVELENGTHS AT NOON, AND TWO HOURS BEFORE AND AFTER NOON

PUBLICATIONS..... -

STATION...(219).....NATAL
CRGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
100879	180979	3	XX		BALLOON LAUNCHES MADE IN SUPPORT OF SATELLITE OVERPASSES INSTRUMENT ECC
100879	180979	1	3	93	AD,CC, 4 TO 12 DAILY

PUBLICATIONS..... -

STATION...(219).....NATAL
CRGANISATION.....CNPQ - INSTITUTO DE PESQUISAS ESPACIAIS (INPE)
INFORMATION.....DIRETOR, INPE, CX POSTAL 515, 12200 SAO JOSE DOS CAMPOS, SP, BRAZIL

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
191178		1	03	93	L=AD,CC, 3 TO 5 TIMES DAILY
		2	03	93	WHEN IT IS POSSIBLE, L=A,C,D

PUBLICATIONS..... -

STATION...(202).....NEUGLOBSOW
CRGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010178		5	XX		MODIFIED ELECTROCHEMICAL CONTINUOUS REGISTRATION

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(10).....NEW DELHI
CRGANISATION.....DIRECTOR GENERAL OF OBSERVATORIES INDIA
INFORMATION.....DY. DIRECTOR GENERAL OBS.(INSTS.),THE OBSERVATORY,LODI RD.,NEW DELHI 110003

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010155	311062	1	03	36	L=CC' ONE DIRECT SUN OBS. PER DAY AT TIME SPECIFIED
0957	0659	2			NO DETAILS, THIS REFERENCE TAKEN FROM WODC DATA FILES
011162	310363	1	03	36	L=AD, ONE DIRECT SUN OBS. PER DAY AT TIME SPECIFIED
200263	301163	2	03	36	L=C, ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
010463	311263	1	03	36	L=AD TWO DIRECT SUN OBS. PER DAY, M BETWEEN 2, 3 AND NOON
011263	311263	2	03	36	L=D ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
010164		1	03	36	L=AD FIVE DIRECT SUN OBS PER DAY M=3,2 NOON
010164		2	03	36	L=A,C,D ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
090371		3	XX		INDIAN ELECTROCHEMICAL. NO DETAILS GIVEN.
010177		5	XX		INDIAN ELECTROCHEMICAL. NO DETAILS GIVEN.

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS (TOTAL OZONE AT TIME SPECIFIED UNTIL MARCH 1963), IN WMO FORM FROM APRIL 1963 ONWARDS,UNKERR RAW(NNN)DATA

STATION...(126).....NORTH POLE II NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(59).....NORWAY STATION
CRGANISATION.....NORWAY
INFORMATION.....NORWAY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
					STATION OPERATED DURING IGY/IGC 1957 TO 1959, BUT NO DATA EVER RECEIVED

PUBLICATIONS..... -

STATION...(89).....NY ALESUND
CRGANISATION.....INSTITUTE OF PHYSICS, UNIVERSITY OF OSLO, NORWAY
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
011166		1	03	08	ONCE PER DAY WHENEVER CONDITIONS ARE SUITABLE, NOON OBS. NO OBSERVATIONS IN 1970.

PUBLICATIONS..... -

STATION...(119).....ODESSA
CRGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
020762	300971	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
011071		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(145).....OLENEK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0866	1267	1			NO DETAILS

PUBLICATIONS.....OD USSR

STATION...(120).....OMSK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
151261	140971	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150971		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(165).....OSLO
ORGANISATION.....INSTITUTE OF PHYSICS UNIVERSITY OF OSLO S H H LARSEN
INFORMATION.....S H H LARSEN INST.OF PHYSICS UNIV.OF OSLO BLINDERN OSLO 3 NORWAY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
190746	300449	1	03	08	ONCE PER DAY
170669		1	03	56	ONCE PER DAY
010869		3	10		TUESDAYS OR WEDNESDAYS 1700 MET
010478		1	03	0056	L= AD,CC* 1 TO 2 DAILY Z=08 TO 11

PUBLICATIONS..... -

STATION...(149).....OVEJUYO (LA PAZ) NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(48).....OXFORD
ORGANISATION.....DIRECTOR GEN., METEOROLOGICAL OFFICE, LONDON RD., BRACKNELL, BERKS, ENGLAND
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
011251		1	03	1	DAILY, AD,C,CC*. SOME SPECIALS. MOON
0857	0857	2	03		NO DETAILS, THIS REFERENCE TAKEN FROM WODC DATA FILES

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(210).....PALESTINE
CRGANISATION.....A.D.M.A., ATMOSPHERIC ENVIRONMENT SERVICE, 4905 DUFFERIN ST., DOWNSVIEW
INFORMATION.....SAME AS OPERATING AGENCY ONTARIO, CANADA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
271077	041277	3	10		16 ASCENTS TO SUPPORT HIGH ALTITUDE BALLOON PROJECT
071080	251080	3	XX		22 ECC ASCENTS FOR STRATOSPHERIC BALLOON SUPPORT

PUBLICATIONS..... -

STATION...(49).....PARIS-MONTSOURIS NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(156).....PAYERNE
CRGANISATION.....SWISS METEOROLOGICAL OFFICE
INFORMATION.....LAB ATMOSPHERIC PHYSICS ETH,HOENGGERBERG,HPP,8049ZUERICH,SCHWEISS

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
011166		3	10		3 SOUNDINGS/WEEK

PUBLICATIONS.....IRREGULAR PUBICATIONS AVAILABLE FROM LAB OF ATM.PHYSICS ETH, ZURICH, SWITZERLAND

STATION...(129).....PECHORA
CRGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
180763		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY AND 1 TO 5 HOURLY MOONLIGHT OBSERVATIONS WHENEVER CONDITIONS ARE SUITABLE

PUBLICATIONS.....OD USSR-63, 64-65, 66-67

STATION...(159).....PERTH
CRGANISATION.....C.S.I.R.O. ASPENDALE
INFORMATION.....BUREAU OF METEOROLOGY. 150 LONSDALE STREET, MELBOURNE 3001. AUSTRALIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0469		1	03	57	2 TOTAL OZONE OBS. EVERY DAY
0469	0673	1	03	57	2 TOTAL OZONE OBS. EVERY DAY
0469	0673	2	03	57	1 UMKEHR OBS. EVERO WEEKTL33
0673		1	03	12	2 TOTAL OZONE OBS. EVERY DAY
0673		2	03	12	1 UMKEHR OBS. EVERY WEEK, L=C
010181		1	3	111	
010181		2	3	111	

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(130).....PETROPAVLOVSK-K.
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
091063		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY

PUBLICATIONS.....OD USSR-63, 64-65,66-67

STATION...(135).....POINT MUGU NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(217).....POKER FLAT
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
160779	190779	3	XX		BALLOON LAUNCHES MADE IN SUPPORT OF SATELLITE OVERPASSES INSTRUMENT ECC
170779	190779	1	XX	103	A,READINGS TAKEN IN SUPPORT OF OZONESONDES,INST.SENTRAN

PUBLICATIONS..... -

STATION...(217).....POKER FLAT
ORGANISATION.....UNIVERSITY OF ALASKA
INFORMATION.....NOAA-ERL-ARL,R/E/AR4, 325 BROADWAY,BOULDER,COLORADO, 80303

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
060384		1	03	63	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D WAVELENGTHS DURING DAYLIGHT MONTHS AT NOON AND BETWEEN TWO HOURS BEFORE AND AFTER NOON
060384		2	03	63	AUTOMATED DOBSON AUTOMATICALLY TAKES A DAILY AM AND PM UMKEHR WHEN SKY CONDITIONS PERMIT

PUBLICATIONS..... -

STATION...(187).....POONA
ORGANISATION.....DIRECTOR GENERAL OF OBSERVATORIES INDIA
INFORMATION.....DY. DIRECTOR GENERAL OBS.(INSTS.),THE OBSERVATORY,LODI RD.,NEW DELHI 110003

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010373		1	03	39	L=AD FIVE DIRECT SUN OBS. PER DAY M=3,2 NOON
010373		2	03	39	L=A,C,D ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
010177		5	XX		INDIAN ELECTROCHEMICAL. NO DETAILS GIVEN.
290171		3	XX		INDIAN ELECTROCHEMICAL. NO DETAILS GIVEN.

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS
(TOTAL OZONE IN WMO FORM, UMKEHR RAW(NNN)DATA)

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(62).....PORT AUX FRANCAIS
CRGANISATION.....LAB.PHYSIQUE DE L'ATMOSPHERE,TOUR 14,4,PLACE JUSSIEU 75230,PARIS CEDEX 05
INFORMATION.....SAME AS ABOVE FRANCE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010759	311268	1	15		2 TO 3 OBSERVATIONS EVERY DAY
011060	311268	3	15		1 SOUNDING PER WEEK WEDNESDAY WEATHER PERMITTING
221057	311268	5	15		CONTINUOUS
					STATION CLOSED

PUBLICATIONS.....AGI PARTICIPATION FRANCAISE, SER. 2, FASC.3
PUBL. LAB.PHYSIQUE ATMOSPHERE NO 1968-5, 1969-1 ET 1971-1

STATION...(160).....PORT MORESBY NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(50).....POTSDAM
CRGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
C11141	120345	1	03	0009	SEVERAL OBSERVATIONS WHENEVER CONDITIONS WERE SUITABLE
C10757	311259	1	07		3 TO 5 OBSERVATIONS WHENEVER CONDITIONS WERE SUITABLE
					FOLLOWING OBSERVATIONS TAKEN AT USSR STATION MIRNY
C10260	311261	1	03	0071	SEVERAL OBSERVATIONS WHENEVER CONDITIONS WERE SUITABLE
C10164	310364	5	02		8 OBSERVATIONS DAILY
010464	311066	5	02		4 OBSERVATIONS DAILY
010164	311265	2	03	0071	DAILY WHENEVER CONDITIONS WERE SUITABLE
					TOTAL OZONE FROM JANUARY 1969 LOCATION 13.05E,ELEV.34M
C10164	210469	1	03	0071	AD,CCD,3 TO 5 AND MORE OBSERVATIONS DAILY
010669	270871	1	03	0064	AD,CD,CCD,3 TO 5 AND MORE OBSERVATIONS DAILY
280871	300972	1	03	0071	NO CHANGE
011072	230279	1	03	0064	NO CHANGE
240279		1	03	0071	NO CHANGE

PUBLICATIONS.....VEROEFFENTL.AD DER DDR NR.9,1941-1945,NR.19,1957-1959 TOTAL OZONE
DEUTSCHES METEOROLOGISCHES JAHRBUCH,TEIL IV,HEFT 2 SURFACE OZONE(FROM 1955)

STATION...(71).....PRETORIA
CRGANISATION.....DIRECTOR, WEATHER BUREAU, PRIV. BAG 193, PRETORIA, SOUTH AFRICA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
C10464	301166	1	03	89	AC,AD,3 OBSERVATIONS EVERY MORNING AND AFTERNOON FOR
					M=1.5, 2, 3
C11266		1	03	89	AC, AD, 3 OBS. EVERY SECOND MORNING FOR M=1.5, 2, 3
C10464	300965	2	03	89	L=A,C,D UMKEHR EVERY MORNING
C11065	301166	2	03	89	L=A,C,D UMKEHR MORNINGS AND AFTERNOONS.
C11266		2	03	89	L=A,C,D UMKEHR EVERY SECOND MORNING
C10173	311273	1	03	89	NO DETAILS GIVEN
C10173	311273	2	03	89	NO DETAILS GIVEN
					OBSERVATIONS TEMPORARILY DISCONTINUED

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(131).....PUERTO MONTT NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(11).....QUETTA
CRGANISATION.....DIRECTOR GENERAL,PAKISTAN METEOROLOGICAL SERVICES KARACHI
INFORMATION.....DIRECTOR,GEOPHYSICAL CENTRE, P.O.BOX NO. 2, QUETTA.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
130852	300955	1	03	43	3-5 OBS. EVERY DAY
010657	290464	1	03	43	3-5 OBS. EVERY DAY
010468		1	03	100	WEEK DAYS L=AD,C M=3.0,2.5,2.0,NOON

PUBLICATIONS.....LOCAL PUBLICATION, GEOPHYSICAL REVIEW, VOL. 2, 1956

STATION...(24).....RESOLUTE
CRGANISATION.....A.D.M.A.,ATMOSPHERIC ENVIRONMENT SERVICE,4905 DUFFERIN ST.,DOWNSVIEW,
INFORMATION.....SAME AS OPERATING AGENCY ONTARIO, CANADA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
070757	301179	1	3	59	AT LEAST FIVE OBS.DAILY MAR. TO OCT. L=AD,CD,CC',M=NOON, 2.0,2.5,3.0, LARGER M-VALUES SPRING AND AUTUMN. NOON OBS L=AD,CD NOV. TO FEB,M=UPPER TRANSIT,1.7,2.0,2.5
070757	301179	2	3	59	YEARLY,APR.1 TO MAY 5 AND AUG.7 TO SEP.10, L=A,B,C,D AM AND/OR PM. L=B DISCONTINUED 1959
011279	100580	1	3	18	SAME PROGRAM AS ABOVE
011279	100580	2	3	18	SAME PROGRAM AS ABOVE
110580		1	3	59	SAME PROGRAM AS ABOVE
110580		2	3	59	SAME PROGRAM AS ABOVE
050166	301179	3	10		WEDNESDAY AT 12Z, EXTRA ASCENTS ON REQUEST
011279		3	XX		ECC SONDE. SAME PROGRAM AS ABOVE

PUBLICATIONS.....CANADIAN METEOROLOGICAL MEMOIRS NO.7, 1961, ADDRESS AS ABOVE
MONTHLY OZONE SUMMARY, ADDRESS AS ABOVE.

STATION...(51).....REYKJAVIK
CRGANISATION.....VEDURSTOFA ISLANDS
INFORMATION.....VEDURSTOFA ISLANDS

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
230152	310755	1	03	37	ONCE PER DAY CONDITIONS PERMITTING L=AD,CC',M=1.3 TO 3.0
180757	261059	1	03	50	SAME AS FIRST PERIOD
190161	311271	1	03	50	L=AD,CC',C, DAILY ACCORDING TO CONDITIONS
010172	300478	1	03	50	L=AD,CC',C, DAILY AT FAVOURABLE CONDITIONS 3 TIMES WEEKLY IN AVERAGE
010578		1	03	50	L=AD,CD,CC' DAILY AT FAVOURABLE CONDITIONS PRIOR TO NOV 9/73 ELEVATION WAS 45M

PUBLICATIONS.....VEDRATTAN YEARLY SUMMARY, 1952-1955,1957-1959 AND FROM 1961

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(121).....RIGA
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010861	140872	1	14		L=3140A AND 3690A M=1T07 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150872		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(212).....R/V AK. SHIRSHOV
ORGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
250577	190877	3	XX		EQUIPMENT OSE-2. EXPEDITION MONSOON-77. VARIABLE POSITIONS IN THE INDIAN OCEAN

PUBLICATIONS..... -

STATION...(204).....ST. HELENA
ORGANISATION.....DIRECTOR GEN.,M.O. 15, BEAUFORT PARK, WOKINGHAM, BERKSHIRE, RG11 3DW U.K.
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
180177		1	03	0035	DAILY,AD

PUBLICATIONS..... -

STATION...(93).....SALISBURY
ORGANISATION.....THE DIRECTOR, W.R.E., BOX 1424H, G.P.O., ADELAIDE, SOUTH AUSTRALIA, 5001
INFORMATION.....SAME AS OPERATING AGENCY (ATTENTION PO/VAR)

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
150361	250861	1	03	57	L=AD
150162	110463	1	03	57	L=AD
040165	221266	1	03	57	L=AD
C40165	221266	2	03	57	L=AD
010866	011166	3	10		SPECIAL IN COOPERATION WITH CSIRO/ASPENDALE
211266		3			BALLOON TEST FLIGHT W.R.E. OPTICAL SONDE
211266		3	10		SPECIAL IN CONJUNCTION WITH W.R.E. OPTICAL SONDE
020968	240469	1	03	111	L=AD OBSERVATIONS 5 DAYS PER WEEK
020968	241268	2	03	111	L=A,C,D, L=A,C, L=C
C10669		1	03	111	L=AD OBSERVATIONS 5 DAYS PER WEEK
C10669		2	03	111	L=A,C,D WHENEVER CONDITIONS ARE SUITABLE

PUBLICATIONS.....HUNT,B.G., W.R.E. TECH. NOTE, PAD 86 (1964)
SISSONS,N.V., W.R.E., TECH. NOTE, SAD 204 (1969)

STATION...(154).....SANTA MARIA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(191).....SAMOA
ORGANISATION.....NOAA - AIR RESOURCES LAB R329 BOULDER CO. USA 80303
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
181275		1	03	0042	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D WAVELENGTHS AT NOON, AND TWO HOURS BEFORE AND AFTER NOON
141275	311280	5	XX		TYPE=ECC/WET CHEMICAL CONTINUOUS RECORDING REDUCED TO HOURLY MEANS
010181		5	XX		TYPE=DASIBI UV ABSORPTION PHOTOMETER CONTINUOUS RECORDING REDUCED TO HOURLY MEANS

PUBLICATIONS..... -

STATION...(239).....SAN DIEGO
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
250577	220677	3	99		SPECIAL PROJECT ECC

PUBLICATIONS..... -

STATION...(234).....SAN JUAN
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020976	100976	3	99		ANTICIPATED MAJOR VOLCANIC ERUPTION ECC

PUBLICATIONS..... -

STATION...(241).....SASKATOON
ORGANISATION.....SCI-TEC INSTRUMENTS INC.
INFORMATION.....1526 FLETCHER ROAD,SASKATOON,SASKATCHEWAN, CANADA S7N 5M1

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010583		1	01	011	1 TO 7 HOURS DIRECT SUN MEASUREMENTS, DAILY,WHENEVER CONDITIONS ARE SUITABLE.

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(12).....SAPPORO
CRGANISATION.....DIRECTOR GEN.,JAPAN METEOROLOGICAL AGENCY,OTE-MACHI CHIYODA-KU TOKYO JAPAN
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
170158	090659	1	04	5704	L=AD, 3 TO 5 OBSERVATIONS DAILY AT M=NOON 2.0 AND 3.0
170158	090659	2	04	5704	L=C, A.M AND P.M DAILY WHENEVER CONDITIONS ARE SUITABLE
100659	091061	1	04	5706	NO CHANGE
100659	091061	2	04	5706	NO CHANGE
101061	151264	1	04	5704	NO CHANGE
101061	151264	2	04	5704	NO CHANGE
161264	311267	1	04	5705	NO CHANGE
161264	311068	2	04	5705	NO CHANGE
010168	311068	1	04	5705	L=AD, 4 OBSERVATIONS DAILY AT M=1.5 AND 2.5
011168	290276	1	04	5704	NO CHANGE
011168	311272	2	04	5704	NO CHANGE
010173	290276	2	04	5704	L=C, ONCE A DAY WHENEVER CONDITION ARE SUITABLE
010376	311281	1	04	5702	NO CHANGE
010376	311281	2	04	5702	NO CHANGE
010182		1	04	5703	NO CHANGE
010182		2	04	5703	NO CHANGE
051268	311274	3	XX		THURSDAY,06Z SPECIAL, INSTRUMENT KI-CARBON
010175		3	XX		VARIABLE, INSTRUMENT KI-CARBON

PUBLICATIONS.....AEROLOGICAL DATA OF JAPAN 1958-1972 (JAPAN METEOROLOGICAL AGENCY)
AEROLGICAL DATA OF JAPAN SPL VOLS 1968-1983 (JAPAN METEOROLOGICAL AGENCY)

STATION...(220).....SCHMUECKE
CRGANISATION.....DIRECTOR METEOROLOGICAL SERVICE OF THE GDR,1500 POTSDAM,ALBERT-EINSTEIN-STR
INFORMATION.....SAME AS OPERATING AGENCY .42-46,GERMAN DEMOCRATIC REPUBLIC

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010778	311280	5	02		4 OBSERVATIONS DAILY
010181		5	XX		MODIFIED ELECTROCHEMICAL CONTINUOUS REGISTRATION

PUBLICATIONS..... -

STATION...(201).....SESTOLA
CRGANISATION.....ITALIAN METEOROLOGICAL SERVICE
INFORMATION.....SERVIZIC METECROLOGICO DELL'AERONAUTICA - P.LE DEGLI ARCHIVI 34, 00100 ROMA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010176		1	03	0048	4 TO 5 DAILY OBSERVATIONS ACCORDING TO THE SEASON

PUBLICATIONS..... -

STATION...(136).....SEATTLE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(147).....SEMIPALATINSK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
1165	1167	1			NO DETAILS AVAILABLE

PUBLICATIONS.....THIS INFORMATION EXTRACTED FROM WODC DATA FILES

STATION...(208).....SHIANGHER
ORGANISATION.....INSTITUTE OF ATMOSPHERIC PHYSICS ACADAMIA SINICA PEKING CHINA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010179		1	03	0075	L=AD CD 3 TO 5 OBSERVATIONS DAILY AT M=NOON TO 3.0
010179		2	03	0075	L=C OCCASIONALLY WHEN CONDITIONS ARE SUITABLE

PUBLICATIONS.....ACTA METEOROLOGICA SINICA 1979-

STATION...(188).....SHIP, RES., POLAND
ORGANISATION.....POLISH ACADEMY OF SCIENCES INSTITUTE OF GEOPHYSICS WARSZAWA UL PASTEURA 3
INFORMATION.....SAME AS OPERATING AGENCY POLAND

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
170670	250670	1	14		SEVERAL OBSERVATIONS OF TOTAL OZONE ON DAYS WITH
210970	220970	1	14		FINE WEATHER CONDITIONS. IN DIRECT SUN AND ZENITH
					BLUE SKY.
					SHIP POSITION AS FOLLOWS IN DEGREES AND MINUTES
					55.34N 13.02E/57.52N 09.04E/62.45N 05.01E/68.16N 15.50E
					72.25N 20.02E/58.37N 07.38E/56.21N 12.14E/

PUBLICATIONS.....MATERIALY 1 PRACE PUBLICATIONS OF THE INSTITUTE OF GEOPHYSICS, POLISH ACADEMY OF SCIENCES (TO BE PUBLISHED).

STATION...(195).....SIBTON
ORGANISATION.....WARREN SPRING LAB.,GUNNELS WOOD ROAD,STEVENAGE,SG1 2BX,UNITED KINGDOM
INFORMATION.....MR G F J BROUGHTON AT ABOVE ADDRESS

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010773	111073	5	XX		CHEMILUMINESCENT OBSERVATIONS EVERY 5 MINUTES
100674	060974	5	XX		ORIGINALLY SUMMERS ONLY
090475	270975	5	XX		PUBLICATION 1
290776	241078	5	XX		PUBLICATION 2 UP TO JUNE 1977 PUBLISHED IN ODM
020579	271179	5	XX		
070580		5	XX		CONTINUING

PUBLICATIONS.....1.OCCURENCE+SIGNIFICANCE OF AIR POLLN. BY PHOTO-CHEM OXIDANT WSLR 227/76
1.LR 227/76 2. LR372/80 3. LR374/81 4. LR400/81
5. LR404/81 6. LR474/83 ALL WARREN SPRING REPORTS

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(214).....SINGAPORE
ORGANISATION.....METEOROLOGICAL SERVICE SINGAPORE,41 HILLCREST ROAD,SINGAPORE 1128
INFORMATION.....THE DIRECTOR ADDRESS AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010279		1	3	7	L=AD,UP TO 3 OR 4 OBSERVATIONS DAILY ON DIRECT SUN CONDITIONS PERMITTING BETWEEN 0830 AND 1115 AM OR 0230 AND 0500 PM BUT PREFERABLY IN MORNING.A REPRESENTATIVE DAILY AVERAGE IS COMPUTED.

PUBLICATIONS..... -

STATION...(164).....SILVER HILL NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(132).....SOFIA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(231).....SPOKANE
ORGANISATION.....NASA,FIELD MEASUREMENT SUPPORT OFFICE,WALLOPS FLIGHT CENTER,VIRGINIA 23337
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
050876	150876	3	99		SPECIAL PROJECT ECC

PUBLICATIONS..... -

STATION...(13).....SRINAGAR
ORGANISATION.....PHYSICAL RESEARCH LABORATORY, AHMEDABAD-9, INDIA
INFORMATION.....PROF. K.R.RAMANATHAN

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
041155	270456	1	03	10	SEVERAL OBS. EVERY DAY, L=CC'
251156	261260	1	03	10	SEVERAL OBS. EVERY DAY, L=AD,CC'
041155	270456	2	03	10	WHEN LARGE OZONE CHANGES NOTED AND SKY FAVOURABLE, L=C.
251156	200560	2	03	10	WHEN LARGE OZONE CHANGES NOTED,AND SKY FAVORABLE,L=A,C,D
171256	210860	5	05		SEVERAL OBS. EVERY DAY (DATA NOT PUBLISHED)

PUBLICATIONS..... INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS, SINCE JULY 1955

STATION...(13).....SRINAGAR
ORGANISATION.....DIRECTOR GEN. OF OBSERVATORIES,INDIA MET.DEPT,LODI ROAD, NEW DELHI-3, INDIA
INFORMATION.....DIRECTOR, RADIO-METEOROLOGY, INDIA MET. DEPT, LODI ROAD, NEW DELHI-3, INDIA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
011063	311063	1	03	10	L=AD, ONE DIRECT SUN OBS., PER DAY, M BETWEEN 2 AND 3 FORENOON OR AFTERNOON
010164	301164	1	03	10	L=AD, FIVE DIRECT SUN OBS. PER DAY, M=3,2, NOON
010165		1	03	10	L=AD, FIVE DIRECT SUN OBS. PER DAY, M=3,2, NOON
010164		2	03	10	L=A,C,D, ONCE PER DAY WHEN CONDITIONS ARE SUITABLE

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS
(TOTAL OZONE IN WMO FORM, UMKEHR RAW (NNN) DATA)

STATION...(133).....STANLEY NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(64).....STERLING NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(189).....SVALBARD HORNSUND
ORGANISATION.....POLISH ACADEMY OF SCIENCES INSTITUTE OF GEOPHYSICS WARSZAWA UL PASTEURA 3 POLAND
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020770	070970	1	14		SEVERAL OBSERVATIONS OF TOTAL OZONE ON DAYS WITH FINE WEATHER CONDITIONS. IN DIRECT SUN AND ZENITH BLUE SKY.
050583	290883	1	14		SEVERAL OBSERVATIONS OF TOTAL OZONE ON DAYS WITH FINE WEATHER CONDITIONS, IN DIRECT SUN.

PUBLICATIONS.....MATERIALY 1 PRACE PUBLICATIONS OF THE INSTITUTE OF GEOPHYSICS, POLISH ACADEMY OF SCIENCES (TO BE PUBLISHED). D-20(178)

STATION...(122).....SVERDLOVSK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020762	140971	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150971		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(101).....SYOWA
ORGANISATION.....DIRECTOR GEN.,JAPAN METEOROLOGICAL AGENCY,OTE-MACHI CHIYODA-KU TOKYO JAPAN
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
230361	050162	1	04	5702	L=AD, 1 TO 3 OBSERVATIONS DAILY DURING SUMMER SEASON
080266	281267	1	04	5702	NO CHANGE
191068	170173	1	04	5702	NO CHANGE
020274	310177	1	04	5706	L=AD, 1 TO 5 OBSERVATIONS DAILY AT M=NOON 1.5 AND 2.5
010177	310177	2	04	5706	L=C, ONCE A DAY WHENEVER CONDITIONS ARE SUITABLE
010277	310182	1	03	119	NO CHANGE
010277	310178	2	03	119	NO CHANGE
010282		1	03	122	NO CHANGE
130282	230183	2	03	122	NO CHANGE
170366		3	XX		SEVERAL TIMES A MONTH WITHOUT 1976, INSTRUMENT KI-CARBON

PUBLICATIONS.....ANTARCTIC RECORD (NATIONAL INSTITUTE OF POLAR RESEARCH,TOKYO JAPAN)
ANTARCTIC METEOROLOGICAL DATA,VOL 7,SPL VOLS (1972,1978,1981)(JAPAN METEOROLOGICAL AGENCY)

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(95).....TAIPEI
CRGANISATION.....CENTRAL WEATHER BUREAU
INFORMATION.....64 KUNG YUEN ROAD,TAIPEI,TAIWAN

PERICD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010765		1	03	95	AD, 3 OBS. DAILY, N=1.5 TO NOON TO 1.5

PUBLICATIONS..... -

STATION...(2).....TAMANRASSET
CRGANISATION.....PHYSIQUE DE L'ATMOSPHERE,TOUR 14,11,QUAI ST BERNARD 75230,PARIS CEDEX 05
INFORMATION.....SAME AS ABOVE FRANCE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
011057	140559	1	03		1 OBSERVATION DAILY
270358	110559	2	03		9 OBSERVATIONS DURING THE PERIOD
210358	160559	3	15		8 SOUNDINGS DURING THE PERIOD
270957	161257	4	15		CONTINUOUS RECORD
230658	280958	4	15		CONTINUOUS RECORD

PUBLICATIONS.....METEOROLOGIE ET OZONE,AGI PARTICIPATION FRANCAISE,SERIE II,FASC.3
IGY FILES

STATION...(79).....TALLAHASSEE
CRGANISATION.....DEPARTMENT OF METEOROLOGY,FLORIDA STATE UNIVERSITY,TALLAHASSEE,FLORIDA
INFORMATION.....NOAA-ARL,RF3292,BOULDER,COLORADO

PERICD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010564	200370	1	03	58	3 OBSERVATIONS DAILY OF TOTAL OZONE MADE ON A,C,D WAVELENGTHS AT NOON,AND TWO HOURS BEFORE AND AFTER NOON
090163	241265	3	13		1 OZONESONDE FLIGHT PER WEEK ON WEDNESDAY,STATION FOR OZONESONDES LOCATED 30.23N 84.22W ELEVATION 21 METRES
0564	0666	2	03	58	UMKEHR, L=A,C,D STATION CLOSED 1 JUNE 79
051081		1	03	58	NO CHANGE REACTIVATED 5 OCTOBER 81

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(14).....TATENO
ORGANISATION.....DIRECTOR GEN.,JAPAN METEOROLOGICAL AGENCY,OTE-MACHI CHIYODA-KU TOKYO JAPAN
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
010655	300657	1	03	52	L=CC_,PREPARATIVE OBSERVATIONS
010655	300657	2	03	52	L=C, PREPARATIVE OBSERVATIONS
010757	030359	1	03	52	L=AD,5 OBSERVATIONS DAILY AT M=NOON 2.0 AND 3.0
010757	030359	2	03	52	L=C, A.M AND P.M DAILY WHENEVER CONDITIONS ARE SUITABLE
030359	120459	1	04	5706	NO CHANGE
030359	120459	2	04	5706	NO CHANGE
130459	311267	1	03	52	NO CHANGE
130459	311275	2	03	52	NO CHANGE
010168	311275	1	03	52	L=AD,5 OBSERVATIONS DAILY AT M=NOON 1.5 AND 2.5
010176	100777	1	03	116	NO CHANGE
010176	100777	2	03	116	NO CHANGE
110777	311278	1	04	5601	NO CHANGE
110777	311278	2	04	5601	NO CHANGE
010179		1	03	116	NO CHANGE
010179		2	03	116	NO CHANGE
060368	311274	3	XX		THURSDAY, 06Z SPECIAL, INSTRUMENT KI-CARBON
010175		3	XX		VARIABLE, INSTRUMENT KI-CARBON

PUBLICATIONS.....AEROLOGICAL DATA OF JAPAN 1957-1972(J.M.A.),BULLETIN OF AEROLOGICAL OBSERVATORY 1958-1981(TATENO A.O.)JOURNAL OF AEROLOGICAL OBSERVATORY VOL 6 NO 1 1957 (TATENO A.O)
AEROLOGICAL DATA OF JAPAN SPL VOLS 1968-1983 (JAPAN METEROLOGICAL AGENCY)

STATION...(185).....TBILISI
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0566	0867	1			NO DETAILS

PUBLICATIONS.....OD USSR

STATION...(157).....THALWIL NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(140).....THULE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(186).....TIKSI
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	NO.	PROGRAMME
0266	0867	1			

PUBLICATIONS.....OD USSR

STATION...(137).....TOPEKA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(15).....TORISHIMA NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(65).....TORONTO
ORGANISATION.....A.D.M.A., ATMOSPHERIC ENVIRONMENT SERVICE, 4905 DUFFERIN ST., DOWNSVIEW,
INFORMATION.....SAME AS OPERATING AGENCY ONTARIO, CANADA

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
120859	011164	1	3	60	AT LEAST 5 OBS.DAILY, L=AD,BD,CD,CC*,M=NOON,2.0,2.5,3.0 AND LARGER M-VALUES UNSCHEDULED BASIS. NOON OBS. L=AD,CD UNSCHEDULED BASIS,M=UPPER TRANSIT,1.6,2.0,2.5
120859	011164	2	3	60	L=A,B,C,D AM AND/OR PM. NO L=BD AFTER 1959
C10465		1	3	77	SAME PROGRAM AS ABOVE, L=BD NOT DONE 05/70 TO 09/80
C10465		2	3	77	SAME PROGRAM AS ABOVE NOTE, INST.NO.18 TEMPORARILY IN SERVICE REPLACING NO 77 FROM APR.22 TO AUG.9 1974, MAY 9 TO JUN. 2 1977, JUL. 25 TO AUG. 25 1977, JUN. 17 TO SEP. 4 1980. PRIOR TO MAR.1972, STATION LOCATED AT TORONTO (SCARBOROUGH) 74375, 43.43N, 79.14W, ELEV. 156M. SUBSEQUENT LOCATION AS IN STATION LISTING
070465	200967	3	10		EXPERIMENTAL ASCENTS AT IRREGULAR INTERVALS
250675		3	10		OCCASIONAL ASCENTS FOR TRAINING PURPOSES
231176	021276	3	10		7 ASCENTS, SPECIAL PROJECT, NO SET SCHEDULE

PUBLICATIONS.....MONTHLY OZONE SUMMARY, ADDRESS AS ABOVE.

STATION...(205).....TRIVANDRUM
ORGANISATION.....DIRECTOR GENERAL OF OBSERVATORIES INDIA
INFORMATION.....DY. DIRECTOR GENERAL OBS.(INSTS.),THE OBSERVATORY,LODI RD.,NEW DELHI 110003

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
C10777		5	XX		INDIAN ELECTROCHEMICAL. NO DETAILS GIVEN.

PUBLICATIONS..... -

STATION...(52).....TROMSO
ORGANISATION.....INSTITUTE OF PHYSICS, UNIVERSITY OF OSLO, NORWAY
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010143		1	03	14	CC* ONCE PER DAY

PUBLICATIONS..... -

STATION...(139).....TURKS ISLAND NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(53).....UCCLE
CRGANISATION.....INST. ROYAL METEO. DE BELGIQUE,3 AV. CIRCULAIRE,1180 BRUXELLES,BELGIUM
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020557	221258	1	3	40	
110865	281167	1	3	40	2 TO 5 OBSERVATIONS DAILY,5 DAYS/WEEK,L=AD,C M=1.1 TO 4
010468	131168	1	3	40	2 TO 5 OBSERVATIONS DAILY,5 DAYS/WEEK,L=AD,C M=1.1 TO 4
280771		1	3	40	2 TO 5 OBSERVATIONS DAILY,5 DAYS/WEEK,L=AD,CD M=1.1 TO 4
150965	190866	3	13		09 Z DURING WORLD GEOPHYSICAL INTERVALS
091166	290967	3	10		MONDAY,WEDNESDAY,FRIDAY 09 Z
190783		1	01	016	2 TO 5 OBSERVATIONS DAILY
030568		3	10		MONDAY,WEDNESDAY,FRIDAY 09 Z

PUBLICATIONS.....BULLETIN TRIMESTRIEL,INSTITUT ROYAL METEOROLOGIQUE DE BELGIQUE

STATION...(54).....UPPSALA
CRGANISATION.....DEPARTMENT OF METEOROLOGY UNIVERSITY OF UPPSALA
INFORMATION.....DEP. OF METEOROLOGY UNIV. OF UPPSALA,BOX 516,S-75120 UPPSALA,SWEDEN

PERICD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
510511	660719	1	03	NO30	
					STATION CLOSED

PUBLICATIONS.....UNIVERSITY OF UPPSALA, DEPARTMENT OF METEOROLOGY, REPORTS NO 23, 36, 43, 44 NO 45.

STATION...(146).....USNS ELTANIN NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(151).....VALENSOLE
CRGANISATION.....LAB.PHYSIQUE DE L'ATMOSPHERE,TOUR 14,4,PLACE JUSSIEU 75230,PARIS CEDEX 05 FRANCE
INFORMATION.....SAME AS ABOVE

PERICD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010469	230571	1	15		2 TO 3 OBSERVATIONS EVERY DAY
240468	230571	3	15		VARIABLE
131168	230571	5	15		CONTINUOUS
					STATION CLOSED MAY 23,1971

PUBLICATIONS.....PUBLI. LAB. PHYSIQUE ATMOSPHERE NO 1972-1

STATION...(98).....VAL JOYEUX
CRGANISATION.....LAB.PHYSIQUE DE L'ATMOSPHERE,TOUR 14,4,PLACE JUSSIEU 75230,PARIS CEDEX 05 FRANCE
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010162		1	15		2 TO 3 OBSERVATIONS EVERY DAY
250657		3	15		VARIABLE
221053		5	15		CONTINUOUS

PUBLICATIONS.....PUBLI.LAB PHYSIQUE ATMOSPHERE NO 1967-1,1969-1, 1971-1 AGI-PARTICIPATION FRANCAISE,SERIE 2,FASC.3

STATION...(74).....VARANASI
ORGANISATION.....DIRECTOR GENERAL OF OBSERVATORIES INDIA
INFORMATION.....DY. DIRECTOR GENERAL OBS.(INSTS.),THE OBSERVATORY,LODI RD.,NEW DELHI 110003

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
011263		1	03	55	L=AD,FIVE DIRECT SUN OBS. PER DAY, M=3,2, NOON
011263	310164	2	03	55	L=D, ONCE PER DAY WHEN CONDITIONS ARE SUITABLE
010264		2	03	55	L=A,C,D ONCE PER DAY WHEN CONDITIONS ARE SUITABLE

PUBLICATIONS.....INDIAN JOURNAL OF METEOROLOGY AND GEOPHYSICS, DATA UP TO DECEMBER, 1968.
AEROLOGICAL DATA OF INDIA FROM JANUARY 1969

STATION...(55).....VIGNA DI VALLE
ORGANISATION.....ITALIAN AIR FORCE, ITAV 3 REPARTO, ROMA EUR
INFORMATION.....OSSMA, VIGNA DI VALLE, 00062 BRACCIANO, ITALY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
010156		1	03	47	AD,B,C,CC',5 DAILY, M=NOON TO 3.3
290368		2	03	47	IN EXPERIMENTAL WAY ONLY.

PUBLICATIONS..... -

STATION...(148).....VITIM
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020965		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY AND 1 TO 5 HOURLY MOONLIGHT OBSERVATIONS WHENEVER CONDITIONS ARE SUITABLE

PUBLICATIONS.....OD USSR 64-65,66-67

STATION...(16).....VLADIVOSTOK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020857	301259	1	09		M=NOON 2.7
011061	140972	1	14		L=3140A AND 3690A M=1 TO 7 HOURLY OBSER. IN DIRECT SUN OR ZENITH SKY EVERY DAY
150972		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(153).....VORONEZ
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
011065		1	14		1 TO 7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY

PUBLICATIONS.....OD USSR 1964-65,1966-67

STATION...(107).....WALLOPS ISLAND
ORGANISATION.....NASA
INFORMATION.....NOAA-ERL-ARL,R/E/AR4,325 BROADWAY,BOULDER,COLORADO 80303

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
011179		1	03	38	3 OBSERVATIONS OF TOTAL OZONE DAILY, OBSERVATIONS MADE ON A,C,D WAVELENGTHS AT NOON AND TWO HOURS BEFORE AND AFTER NOON
0767		3	XX		ECC LAUNCHES MADE IN SUPPORT OF SATELLITE OVERPASSES STATION LOCATION CHANGED OCT.23 1978. PREVIOUS LOCATION 37.51N,75.29W,3M.

PUBLICATIONS..... -

STATION...(25).....WASHINGTON NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(56).....WEISSENAU NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(32).....WELLINGTON NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(167).....WIEN/HOHE WARTE NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION...(155).....WHITE SANDS
ORGANISATION.....NOAA-ARL AND DEPT. OF ARMY
INFORMATION.....NOAA-ARL, RF3292, BOULDER, COLORADO, 80302, U.S.A.

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
050172		1	03	86	DOBSON NO 86 PUT INTO OPERATION AT WHITE SANDS ON JANUARY 5,1972. PROGRAM NOT YET LISTED

PUBLICATIONS..... -

STATION...(163).....WILKES NON OPERATIVE, SEE/VOIR INDEX NO. 6

STATION WMO.NO.,LATITUDE,LONGITUDE,ELEVATION,SEE STATION LIST/VOIR LISTE DES STATIONS

STATION...(94).....WOOMERA
ORGANISATION.....THE DIRECTOR, W.R.E., BOX 1424H, G.P.O., ADELAIDE, SOUTH AUSTRALIA, 5001
INFORMATION.....SAME AS OPERATING AGENCY (ATTENTION PO/VAR)

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
081161		2	03	57	L=C SPECIAL
131162		2	03	57	L=C SPECIAL
011162	131362	1	03	57	L=AD SPECIAL
241061	081161	1	03	57	L=AD SPECIAL
010768	121268	3	10		SPECIAL,IN CONJUNCTION WITH WRE DROPSONDE(OZONE-OPTICAL)
010768	121268	6			SPECIAL,DEVELOPMENT (OPTICAL) OZONE WITH WRE PARACHUTE DROPSONDE 28-60KM
010669		3	10		SPECIAL, IN CONJUNCTION WITH WRE DROPSONDE
010669		6	XX		PARACHUTE WRE DROPSONDE OPTICAL, APPROX. MONTHLY 28-60KM
010669		6	XX		ROCKET UV PHOTOMETERS 2900A, 2537A, SPECIAL 30-75KM

PUBLICATIONS.....HUNT,B.G., W.R.E. TECH. NOTE, PAD 86 (1964)

STATION...(123).....YAKUTSK
ORGANISATION.....HYDRO-MET SERVICE OF USSR, OULITZA PAVLIKA, MOROSOVA 12, MOSKWA, USSR
INFORMATION.....SAME AS ABOVE

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
020961	140972	1	14		L=3140A AND 3690A M=1TO7 HOURLY OBSERVATIONS IN DIRECT SUN OR ZENITH SKY EVERY DAY
150972		1	14		L=2980A AND 3260A M=SAME AS ABOVE

PUBLICATIONS..... -

STATION...(194).....YORKTON
ORGANISATION.....A.D.M.A., ATMOSPHERIC ENVIRONMENT SERVICE, 4905 DUFFERIN ST., DOWNSVIEW, ONTARIO, CANADA
INFORMATION.....SAME AS OPERATING AGENCY

PERIOD FROM/DE	TO/A	OBSERVATION TYPE	INSTRUMENT TYPE	INSTRUMENT NO.	PROGRAMME
260775	270875	3	10		18 ASCENTS TO SUPPORT HIGH ALTITUDE BALLOON PROJECT, NO SET SCHEDULE
070876	310876	3	10		27 ASCENTS, SAME AS IN 1975 PROJECT
030876	310876	1	03	102	L=AD, 1 TO 5 OBSERVATIONS DAILY AT M=NOON, 2.0 AND 3.0
040877	110977	1	3	18	NO CHANGE
040877	110977	3	10		43ASCENTS, SAME AS 1975 PROJECT
100878	240878	3	XX		ECC.11 ASCENTS IN SUPPORT OF HIGH ALTITUDE BALLOON PROJ.

PUBLICATIONS..... -

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
AARHUS	06070	JAN-FEB 1980	1	ODM VOL 21 NO 1	
AARHUS	06070	MAR-APR 1980	1	ODM VOL 21 NO 2	
AARHUS	06070	MAY-JUN 1980	1	ODM VOL 21 NO 3	
AARHUS	06070	JUL-AUG 1980	1	ODM VOL 21 NO 4	
AARHUS	06070	SEP-OCT 1980	1	ODM VOL 21 NO 5	
AARHUS	06070	NOV-DEC 1980	1	ODM VOL 21 NO 6	
AARHUS	06070	JAN-FEB 1981	1	ODM VOL 22 NO 1	
AARHUS	06070	MAR-APR 1981	1	ODM VOL 22 NO 2	
AARHUS	06070	MAY-JUN 1981	1	ODM VOL 22 NO 3	DELAYED
AARHUS	06070	JUL-AUG 1981	1	ODM VOL 22 NO 4	
AARHUS	06070	SEP-OCT 1981	1	ODM VOL 22 NO 5	
AARHUS	06070	NOV-DEC 1981	1	ODM VOL 22 NO 6	
AARHUS	06070	JAN-FEB 1982	1	ODM VOL 23 NO 1	
AARHUS	06070	MAR-APR 1982	1	ODM VOL 23 NO 2	
AARHUS	06070	MAY-JUN 1982	1	ODM VOL 23 NO 3	
AARHUS	06070	JUL-AUG 1982	1	ODM VOL 23 NO 4	
AARHUS	06070	SEP-OCT 1982	1	ODM VOL 23 NO 5	
AARHUS	06070	NOV-DEC 1982	1	ODM VOL 23 NO 6	
AARHUS	06070	JAN-FEB 1983	1	ODM VOL 24 NO 1	
AARHUS	06070	MAR-APR 1983	1	ODM VOL 24 NO 2	
AARHUS	06070	JUL-AUG 1983	1	ODM VOL 24 NO 4	
AARHUS	06070	SEP-OCT 1983	1	ODM VOL 24 NO 5	
AARHUS	06070	NOV-DEC 1983	1	ODM VOL 24 NO 6	
AHMEDABAD	42647	MAR-OCT 1983	1	ODM VOL 24 NO 5	
AHMEDABAD	42647	NOV-DEC 1983	1	ODM VOL 24 NO 6	
ALBROOK		AUG-SEP 1980	4	ODM VOL 21 NO 5	
ALMA-ATA	36870	JAN-DEC 1979	1	ODM VOL 21 NO 4	DELAYED
ALMA-ATA	36870	1/80 - 4/81	1	ODM VOL 22 NO 3	DELAYED
ALMA-ATA	36870	JAN 1980	1	ODM VOL 22 NO 5	CORRECTION
ALMA-ATA	36870	MAY-AUG 1981	1	ODM VOL 22 NO 5	
ALMA-ATA	36870	SEP-DEC 1981	1	ODM VOL 22 NO 6	
ALMA-ATA	36870	JAN-APR 1982	1	ODM VOL 23 NO 2	
ALMA-ATA	36870	JAN 1982	1	ODM VOL 23 NO 6	CORRECTIONS
AMUNDSEN-SCOTT	89009	12/78 - 2/80	1	ODM VOL 21 NO 5	CORRECTIONS
AMUNDSEN-SCOTT	89009	JAN-DEC 1979	7	ODM VOL 21 NO 3	CORRECTIONS
AMUNDSEN-SCOTT	89009	NOV-DEC 1979	7	ODM VOL 22 NO 3	CORRECTIONS
AMUNDSEN-SCOTT	89009	JAN 1980	1	ODM VOL 21 NO 1	
AMUNDSEN-SCOTT	89009	JAN-DEC 1980	7	ODM VOL 22 NO 3	DELAYED
AMUNDSEN-SCOTT	89009	12/80-12/82	1	ODM VOL 23 NO 6	
AMUNDSEN-SCOTT	89009	JAN 1983	1	ODM VOL 24 NO 1	
AMUNDSEN-SCOTT	89009	1/81 -12/82	7	ODM VOL 24 NO 4	CORRECTIONS
AMUNDSEN-SCOTT	89009	FEB-OCT 1983	1	ODM VOL 24 NO 5	
AMUNDSEN-SCOTT	89009	NOV 1983	1	ODM VOL 24 NO 6	
AROSA		JAN-DEC 1979	2	ODM VOL 21 NO 6	
AROSA		JUL-AUG 1979	1	ODM VOL 21 NO 4	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
AROSA		JAN-FEB 1980	1	ODM VOL 21 NO 1	
AROSA		1/80 - 3/81	2	ODM VOL 22 NO 4	
AROSA		MAR-APR 1980	1	ODM VOL 21 NO 2	
AROSA		MAY-JUN 1980	1	ODM VOL 21 NO 3	
AROSA		JUL-AUG 1980	1	ODM VOL 21 NO 4	
AROSA		SEP-OCT 1980	1	ODM VOL 21 NO 5	
AROSA		NOV-DEC 1980	1	ODM VOL 21 NO 6	
AROSA		JAN-FEB 1981	1	ODM VOL 22 NO 1	
AROSA		JAN-DEC 1981	2	ODM VOL 23 NO 1	DELAYED
AROSA		MAR-APR 1981	1	ODM VOL 22 NO 2	
AROSA		MAY-JUN 1981	1	ODM VOL 22 NO 3	DELAYED
AROSA		JUL-AUG 1981	1	ODM VOL 22 NO 4	
AROSA		SEP-OCT 1981	1	ODM VOL 22 NO 5	
AROSA		NOV-DEC 1981	1	ODM VOL 22 NO 6	
AROSA		JAN-FEB 1982	1	ODM VOL 23 NO 1	
AROSA		JAN-DEC 1982	2	ODM VOL 24 NO 5	
AROSA		MAR-APR 1982	1	ODM VOL 23 NO 2	
AROSA		MAY-JUN 1982	1	ODM VOL 23 NO 3	
AROSA		JUL-AUG 1982	1	ODM VOL 23 NO 4	
AROSA		SEP-OCT 1982	1	ODM VOL 23 NO 5	
AROSA		NOV-DEC 1982	1	ODM VOL 23 NO 6	
AROSA		JAN-FEB 1983	1	ODM VOL 24 NO 1	
AROSA		MAR-APR 1983	1	ODM VOL 24 NO 2	
AROSA		MAY-JUN 1983	1	ODM VOL 24 NO 3	
AROSA		JUL-AUG 1983	1	ODM VOL 24 NO 4	
AROSA		SEP-OCT 1983	1	ODM VOL 24 NO 5	
AROSA		NOV-DEC 1983	1	ODM VOL 24 NO 6	
ASHKHABAD	38880	JAN-DEC 1979	1	ODM VOL 21 NO 4	DELAYED
ASHKHABAD	38880	JAN-DEC 1980	1	ODM VOL 22 NO 3	DELAYED
ASPENDALE		1/73 -12/79	2	ODM VOL 22 NO 2	CORRECTIONS
ASPENDALE		1/73 -12/79	2	ODM VOL 22 NO 3	CORRECTIONS
ASPENDALE		2/80-12/81	4	ODM VOL 23 NO 1	DELAYED
ASPENDALE		JAN-FEB 1980	1	ODM VOL 21 NO 1	
ASPENDALE		2/80 -10/81	2	ODM VOL 23 NO 4	DELAYED
ASPENDALE		MAR-AUG 1980	1	ODM VOL 21 NO 4	
ASPENDALE		SEP-OCT 1980	1	ODM VOL 21 NO 5	
ASPENDALE		10/80 ,11/81	4	ODM VOL 23 NO 2	TWO CORRECTIONS
ASPENDALE		11/80 - 6/81	1	ODM VOL 22 NO 3	DELAYED
ASPENDALE		MAY 1981	1	ODM VOL 22 NO 4	CORRECTION
ASPENDALE		JUL 1981	1	ODM VOL 22 NO 4	
ASPENDALE		JUL-OCT 1981	1	ODM VOL 22 NO 5	
ASPENDALE		NOV-DEC 1981	1	ODM VOL 22 NO 6	
ASPENDALE		JAN-APR 1982	5	ODM VOL 23 NO 2	SONDES MAR-APR ONLY
ASPENDALE		JAN,APR 1982	1	ODM VOL 23 NO 3	CORRECTIONS
ASPENDALE		JAN-DEC 1982	2	ODM VOL 23 NO 6	
ASPENDALE		04 MAY 1982	4	ODM VOL 23 NO 3	ONE FLIGHT ONLY
ASPENDALE		MAY-AUG 1982	1	ODM VOL 23 NO 4	
ASPENDALE		SEP-DEC 1982	1	ODM VOL 23 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
BANGKOK	48455	11/79 - 8/80	1	ODM VOL 21 NO 4	
BANGKOK	48455	SEP-OCT 1980	1	ODM VOL 21 NO 5	
BANGKOK	48455	NOV-DEC 1980	1	ODM VOL 21 NO 6	
BANGKOK	48455	JAN-FEB 1981	1	ODM VOL 22 NO 1	
BANGKOK	48455	MAR-APR 1981	1	ODM VOL 22 NO 2	
BANGKOK	48455	MAY-JUN 1981	1	ODM VOL 22 NO 3	
BANGKOK	48455	JUL-AUG 1981	1	ODM VOL 22 NO 4	
BANGKOK	48455	SEP-OCT 1981	1	ODM VOL 22 NO 5	
BANGKOK	48455	NOV-DEC 1981	1	ODM VOL 22 NO 6	
BANGKOK	48455	JAN-FEB 1982	1	ODM VOL 23 NO 1	
BANGKOK	48455	MAR-APR 1982	1	ODM VOL 23 NO 2	
BANGKOK	48455	MAY-JUN 1982	1	ODM VOL 23 NO 3	
BANGKOK	48455	JUL-AUG 1982	1	ODM VOL 23 NO 4	
BANGKOK	48455	SEP-OCT 1982	1	ODM VOL 23 NO 5	
BANGKOK	48455	NOV-DEC 1982	1	ODM VOL 23 NO 6	
BANGKOK	48455	JAN-FEB 1983	1	ODM VOL 24 NO 1	
BANGKOK	48455	MAR-APR 1983	1	ODM VOL 24 NO 2	
BANGKOK	48455	MAY-JUN 1983	1	ODM VOL 24 NO 3	
BARROW	70026	JUN 1974	4	ODM VOL 22 NO 5	NASA SPECIAL PROJECT
BARROW	70026	JAN-DEC 1979	7	ODM VOL 21 NO 3	CORRECTIONS
BARROW	70026	DEC 1979	7	ODM VOL 21 NO 5	CORRECTIONS
BARROW	70026	JAN-DEC 1980	7	ODM VOL 22 NO 3	DELAYED
BARROW	70026	MAY-JUN 1980	1	ODM VOL 21 NO 3	
BARROW	70026	JUL-AUG 1980	1	ODM VOL 21 NO 5	
BARROW	70026	9/80 -12/82	7	ODM VOL 24 NO 4	CORRECTIONS
BARROW	70026	SEP-OCT 1980	1	ODM VOL 21 NO 6	
BARROW	70026	MAR-APR 1981	1	ODM VOL 22 NO 2	
BARROW	70026	MAY-JUN 1981	1	ODM VOL 22 NO 3	
BARROW	70026	JUL-AUG 1981	1	ODM VOL 22 NO 4	
BARROW	70026	SEP 1981	1	ODM VOL 22 NO 5	
BARROW	70026	MAR-APR 1982	1	ODM VOL 23 NO 2	
BARROW	70026	MAY-JUN 1982	1	ODM VOL 23 NO 3	
BARROW	70026	JUL-AUG 1982	1	ODM VOL 23 NO 4	
BARROW	70026	SEP-OCT 1982	1	ODM VOL 23 NO 5	
BISCARROSSE/SMS	07503	SEP-OCT 1981	4	ODM VOL 22 NO 5	
BISCARROSSE/SMS	07503	NOV-DEC 1981	5	ODM VOL 22 NO 6	
BISCARROSSE/SMS	07503	JAN-FEB 1982	5	ODM VOL 23 NO 1	
BISCARROSSE/SMS	07503	MAR-APR 1982	5	ODM VOL 23 NO 2	
BISCARROSSE/SMS	07503	MAY-JUN 1982	5	ODM VOL 23 NO 3	
BISCARROSSE/SMS	07503	JUL-AUG 1982	5	ODM VOL 23 NO 4	
BISCARROSSE/SMS	07503	SEP-OCT 1982	5	ODM VOL 23 NO 5	
BISCARROSSE/SMS	07503	NOV-DEC 1982	5	ODM VOL 23 NO 6	
BISCARROSSE/SMS	07503	JAN 1983	5	ODM VOL 24 NO 1	
BISMARCK	72764	JAN-FEB 1980	1	ODM VOL 21 NO 1	
BELSK	12367	3/63 -12/81	1	ODM VOL 24 NO 6	RE-EVALUATED DATA *****

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UNKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
BELSK	12367	JAN-FEB 1980	3	ODW VOL 21 NO 1	FEB.UNK.ONLY
BELSK	12367	MAR-APR 1980	3	ODW VOL 21 NO 2	
BELSK	12367	MAY-JUN 1980	3	ODW VOL 21 NO 3	
BELSK	12367	JUL-AUG 1980	3	ODW VOL 21 NO 4	
BELSK	12367	6 MAR. 80	2	ODW VOL 21 NO 4	CORRECTION
BELSK	12367	SEP-OCT 1980	3	ODW VOL 21 NO 5	
BELSK	12367	NOV-DEC 1980	3	ODW VOL 21 NO 6	NO DEC. UMKEHRS
BELSK	12367	JAN-FEB 1981	3	ODW VOL 22 NO 1	
BELSK	12367	MAR-APR 1981	3	ODW VOL 22 NO 2	
BELSK	12367	MAY-JUN 1981	3	ODW VOL 22 NO 3	NO MAY UMKEHRS
BELSK	12369	JUN-SEP 1981	2	ODW VOL 23 NO 3	3 CORRECTIONS
BELSK	12367	JUL-AUG 1981	3	ODW VOL 22 NO 4	
BELSK	12367	SEP-OCT 1981	3	ODW VOL 22 NO 5	
BELSK	12367	NOV-DEC 1981	1	ODW VOL 22 NO 6	
BELSK	12367	JAN-APR 1982	3	ODW VOL 23 NO 2	NO JANUARY UMKEHRS
BELSK	12367	MAR-OCT 1982	2	ODW VOL 23 NO 6	
BELSK	12367	MAY-JUN 1982	3	ODW VOL 23 NO 3	
BELSK	12367	JUL-AUG 1982	3	ODW VOL 23 NO 4	
BELSK	12367	SEP-OCT 1982	1	ODW VOL 23 NO 5	
BELSK	12367	NOV-DEC 1982	1	ODW VOL 23 NO 6	
BELSK	12367	11/82 - 6/83	2	ODW VOL 24 NO 3	
BELSK	12367	NOV 1982	2	ODW VOL 24 NO 6	CORRECTIONS
BELSK	12367	JAN-FEB 1983	1	ODW VOL 24 NO 1	
BELSK	12367	FEB-MAR 1983	3	ODW VOL 24 NO 2	FEBRUARY-UMKEHRS ONLY
BELSK	12367	APR-JUN 1983	1	ODW VOL 24 NO 3	
BELSK	12367	JUL-AUG 1983	3	ODW VOL 24 NO 4	
BELSK	12367	SEP-DEC 1983	3	ODW VOL 24 NO 6	SEP-OCT UMKEHRS ONLY
BISCARROSSE/SNS	07503	JAN-FEB 1980	5	ODW VOL 21 NO 1	
BISCARROSSE/SNS	07503	MAR-APR 1980	5	ODW VOL 21 NO 2	
BISCARROSSE/SNS	07503	MAY-JUN 1980	5	ODW VOL 21 NO 3	
BISCARROSSE/SNS	07503	JUL-AUG 1980	5	ODW VOL 21 NO 4	
BISCARROSSE/SNS	07503	SEP-OCT 1980	5	ODW VOL 21 NO 5	
BISCARROSSE/SNS	07503	NOV-DEC 1980	5	ODW VOL 21 NO 6	
BISCARROSSE/SNS	07503	JAN-FEB 1981	5	ODW VOL 22 NO 1	
BISCARROSSE/SNS	07503	MAR-APR 1981	5	ODW VOL 22 NO 2	
BISCARROSSE/SNS	07503	MAY-JUN 1981	6	ODW VOL 22 NO 3	NO MAY UMKEHRS
BISCARROSSE/SNS	07503	JUL-AUG 1981	5	ODW VOL 22 NO 4	
BISMARCK	72764	MAR-APR 1980	1	ODW VOL 21 NO 2	
BISMARCK	72764	MAY-JUN 1980	1	ODW VOL 21 NO 3	
BISMARCK	72764	JUL-AUG 1980	1	ODW VOL 21 NO 4	
BISMARCK	72764	SEP-OCT 1980	1	ODW VOL 21 NO 5	
BISMARCK	72764	NOV-DEC 1980	1	ODW VOL 21 NO 6	
BISMARCK	72764	JAN-FEB 1981	1	ODW VOL 22 NO 1	
BISMARCK	72764	MAR-APR 1981	1	ODW VOL 22 NO 2	
BISMARCK	72764	MAY-JUN 1981	1	ODW VOL 22 NO 3	
BISMARCK	72764	JUL-AUG 1981	1	ODW VOL 22 NO 4	
BISMARCK	72764	SEP-OCT 1981	1	ODW VOL 22 NO 5	
BISMARCK	72764	NOV-DEC 1981	1	ODW VOL 22 NO 6	
BISMARCK	72764	JAN-FEB 1982	1	ODW VOL 23 NO 1	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
BISMARCK	72764	MAR-APR 1982	1	ODW VOL 23 NO 2	
BISMARCK	72764	MAY-JUN 1982	1	ODW VOL 23 NO 3	
BISMARCK	72764	JUL-AUG 1982	1	ODW VOL 23 NO 4	
BISMARCK	72764	SEP-OCT 1982	1	ODW VOL 23 NO 5	
BISMARCK	72764	NOV-DEC 1982	1	ODW VOL 23 NO 6	
BISMARCK	72764	JAN-FEB 1983	1	ODW VOL 24 NO 1	
BISMARCK	72764	MAR-APR 1983	1	ODW VOL 24 NO 2	
BISMARCK	72764	MAY-JUN 1983	1	ODW VOL 24 NO 3	
BISMARCK	72764	JUL-AUG 1983	1	ODW VOL 24 NO 4	
BISMARCK	72764	SEP-OCT 1983	1	ODW VOL 24 NO 5	
BISMARCK	72764	NOV-DEC 1983	1	ODW VOL 24 NO 6	
BOLSHAYA ELAN	32150	JAN-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
BOLSHAYA ELAN	32150	JUN 1979	1	ODW VOL 22 NO 3	CORRECTIONS
BOLSHAYA ELAN	32150	1/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
BOLSHAYA ELAN	32150	MAY-AUG 1981	1	ODW VOL 22 NO 5	
BOLSHAYA ELAN	32150	SEP-DEC 1981	1	ODW VOL 22 NO 6	
BOLSHAYA ELAN	32150	JAN-APR 1982	1	ODW VOL 23 NO 2	
BOLSHAYA ELAN	32150	FEB 1982	1	ODW VOL 23 NO 6	CORRECTIONS
BOLSHAYA ELAN	32150	MAY-DEC 1982	1	ODW VOL 24 NO 4	DELAYED
BOULDER		9/79 - 4/80	2	ODW VOL 21 NO 3	CORRECTIONS
BOULDER		JAN-FEB 1980	1	ODW VOL 21 NO 1	
BOULDER		MAR-APR 1980	1	ODW VOL 21 NO 2	
BOULDER		MAY-JUN 1980	3	ODW VOL 21 NO 3	
BOULDER		JUN-AUG 1980	3	ODW VOL 21 NO 4	JUN TOTOZ COM.
BOULDER		JUL-AUG 1980	2	ODW VOL 21 NO 5	CORRECTIONS
BOULDER		SEP-OCT 1980	3	ODW VOL 21 NO 5	
BOULDER		NOV-DEC 1980	3	ODW VOL 21 NO 6	
BOULDER		JAN-FEB 1981	3	ODW VOL 22 NO 1	
BOULDER		MAR-APR 1981	1	ODW VOL 22 NO 2	
BOULDER		APR-JUN 1981	2	ODW VOL 22 NO 3	
BOULDER		MAY-JUN 1981	1	ODW VOL 22 NO 3	
BOULDER		JUL-AUG 1981	3	ODW VOL 22 NO 4	
BOULDER		SEP-OCT 1981	3	ODW VOL 22 NO 5	
BOULDER		18/9/81	2	ODW VOL 22 NO 6	CORRECTION
BOULDER		NOV-DEC 1981	3	ODW VOL 22 NO 6	
BOULDER		JAN-FEB 1982	3	ODW VOL 23 NO 1	
BOULDER		1/82 -10/83	1	ODW VOL 24 NO 6	CORRECTIONS
BOULDER		MAR-APR 1982	3	ODW VOL 23 NO 2	
BOULDER		MAY-JUN 1982	1	ODW VOL 23 NO 3	
BOULDER		JUL-AUG 1982	1	ODW VOL 23 NO 4	
BOULDER		SEP-OCT 1982	1	ODW VOL 23 NO 5	
BOULDER		NOV-DEC 1982	1	ODW VOL 23 NO 6	
BOULDER		JAN-FEB 1983	1	ODW VOL 24 NO 1	
BOULDER		MAR-APR 1983	1	ODW VOL 24 NO 2	
BOULDER		MAY-JUN 1983	1	ODW VOL 24 NO 3	
BOULDER		JUL-AUG 1983	1	ODW VOL 24 NO 4	
BOULDER		SEP-OCT 1983	1	ODW VOL 24 NO 5	
BOULDER		NOV-DEC 1983	1	ODW VOL 24 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
BRACKNELL	03764	JAN-FEB 1980	1	ODW VOL 21 NO 1	
BRACKNELL	03764	MAR-APR 1980	1	ODW VOL 21 NO 2	
BRACKNELL	03764	MAY-JUN 1980	1	ODW VOL 21 NO 3	
BRACKNELL	03764	JUL-AUG 1980	1	ODW VOL 21 NO 4	
BRACKNELL	03764	SEP-OCT 1980	1	ODW VOL 21 NO 5	
BRACKNELL	03764	NOV-DEC 1980	1	ODW VOL 21 NO 6	
BRACKNELL	03764	JAN-FEB 1981	1	ODW VOL 22 NO 1	
BRACKNELL	03764	MAR 1981	1	ODW VOL 22 NO 2	
BRACKNELL	03764	APR-MAY 1981	1	ODW VOL 24 NO 2	DELAYED
BRACKNELL	03764	JUN 1981	1	ODW VOL 22 NO 3	
BRACKNELL	03764	JUL-SEP 1981	1	ODW VOL 22 NO 5	
BRACKNELL	03764	OCT-DEC 1981	1	ODW VOL 22 NO 6	
BRACKNELL	03764	JAN-OCT 1982	1	ODW VOL 23 NO 5	
BRACKNELL	03764	NOV-DEC 1982	1	ODW VOL 23 NO 6	
BRACKNELL	03764	JAN-FEB 1983	1	ODW VOL 24 NO 1	
BRACKNELL	03764	MAR-APR 1983	1	ODW VOL 24 NO 2	
BRACKNELL	03764	MAY-JUN 1983	1	ODW VOL 24 NO 3	
BRACKNELL	03764	JUL-AUG 1983	1	ODW VOL 24 NO 4	
BRACKNELL	03764	SEP-OCT 1983	1	ODW VOL 24 NO 5	
BRACKNELL	03764	NOV 1983	1	ODW VOL 24 NO 6	
BRINDISI	16320	SEP-DEC 1982	1	ODW VOL 23 NO 6	
BRINDISI	16320	JAN-FEB 1983	1	ODW VOL 24 NO 1	
BRINDISI	16320	MAR-JUN 1983	1	ODW VOL 24 NO 3	
BRINDISI	16320	JUL-AUG 1983	1	ODW VOL 24 NO 4	
BRINDISI	16320	SEP-DEC 1983	1	ODW VOL 24 NO 6	
BRISBANE	94576	6/72- 12/81	2	ODW VOL 23 NO 4	DELAYED
BRISBANE	94576	JAN-FEB 1980	1	ODW VOL 21 NO 1	
BRISBANE	94576	MAR-AUG 1980	1	ODW VOL 21 NO 4	
BRISBANE	94576	SEP-OCT 1980	1	ODW VOL 21 NO 5	
BRISBANE	94576	12/80 , 2/81	1	ODW VOL 22 NO 4	CORRECTION
BRISBANE	94576	DEC 1980	1	ODW VOL 23 NO 2	CORRECTION
BRISBANE	94576	12/80, 4/82	1	ODW VOL 23 NO 3	CORRECTIONS
BRISBANE	94576	NOV-DEC 1980	1	ODW VOL 22 NO 3	
BRISBANE	94576	JUL 1981	1	ODW VOL 22 NO 4	
BRISBANE	94576	JUL-OCT 1981	1	ODW VOL 22 NO 5	
BRISBANE	94576	NOV-DEC 1981	1	ODW VOL 22 NO 6	
BRISBANE	94576	JAN-APR 1982	1	ODW VOL 23 NO 2	
BRISBANE	94576	MAY-AUG 1982	1	ODW VOL 23 NO 4	
BRISBANE	94576	SEP-DEC 1982	1	ODW VOL 23 NO 6	
BRISBANE	94576	JAN-APR 1983	1	ODW VOL 24 NO 2	
BUCHAREST	15420	JAN-JUN 1980	1	ODW VOL 21 NO 3	
BUCHAREST	15420	JUL-AUG 1980	1	ODW VOL 21 NO 4	
BUCHAREST	15420	SEP-DEC 1980	1	ODW VOL 21 NO 6	
BUCHAREST	15420	JAN-FEB 1981	1	ODW VOL 22 NO 1	
BUCHAREST	15420	MAR-APR 1981	1	ODW VOL 22 NO 2	
BUCHAREST	15420	MAY-JUN 1981	1	ODW VOL 22 NO 3	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
BUCHAREST	15420	JUL-AUG 1981	1	ODW VOL 22 NO 4	
BUCHAREST	15420	SEP-OCT 1981	1	ODW VOL 22 NO 5	
BUCHAREST	15420	NOV-DEC 1981	1	ODW VOL 22 NO 6	
BUCHAREST	15420	JAN-FEB 1982	1	ODW VOL 23 NO 1	
BUCHAREST	15420	JAN-JUN 1982	1	ODW VOL 23 NO 3	JAN-APR CORRECTIONS
BUCHAREST	15420	MAR-APR 1982	1	ODW VOL 23 NO 2	
BUCHAREST	15420	JUL-AUG 1982	1	ODW VOL 23 NO 4	
BUCHAREST	15420	SEP-DEC 1982	1	ODW VOL 23 NO 6	
BUCHAREST	15420	JAN-APR 1983	1	ODW VOL 24 NO 2	
BUCHAREST	15420	MAY-AUG 1983	1	ODW VOL 24 NO 4	
BUCHAREST	15420	SEP-DEC 1983	1	ODW VOL 24 NO 6	
BUDAPEST-LORINC	12843	JAN-FEB 1980	1	ODW VOL 21 NO 1	
BUDAPEST-LORINC	12843	MAR-APR 1980	1	ODW VOL 21 NO 2	
BUDAPEST-LORINC	12843	MAY-JUN 1980	1	ODW VOL 21 NO 3	
BUDAPEST-LORINC	12843	JUL-AUG 1980	1	ODW VOL 21 NO 4	
BUDAPEST-LORINC	12843	SEP-OCT 1980	1	ODW VOL 21 NO 5	
BUDAPEST-LORINC	12843	DEC 1980	1	ODW VOL 21 NO 6	
BUDAPEST-LORINC	12843	JAN-FEB 1981	1	ODW VOL 22 NO 1	
BUDAPEST-LORINC	12843	MAR-APR 1981	1	ODW VOL 22 NO 2	
BUDAPEST-LORINC	12843	MAY-JUN 1981	1	ODW VOL 22 NO 3	
BUDAPEST-LORINC	12843	JUL-AUG 1981	1	ODW VOL 22 NO 4	
BUDAPEST-LORINC	12843	SEP-OCT 1981	1	ODW VOL 22 NO 5	
BUDAPEST-LORINC	12843	NOV-DEC 1981	1	ODW VOL 22 NO 6	
BUDAPEST-LORINC	12843	JAN-FEB 1982	1	ODW VOL 23 NO 1	
BUDAPEST-LORINC	12843	MAR-APR 1982	1	ODW VOL 23 NO 2	
BUDAPEST-LORINC	12843	MAR 1982	1	ODW VOL 23 NO 3	CORRECTIONS
BUDAPEST-LORINC	12843	MAY-JUN 1982	1	ODW VOL 23 NO 3	
BUDAPEST-LORINC	12843	JUL-AUG 1982	1	ODW VOL 23 NO 4	
BUDAPEST-LORINC	12843	SEP-OCT 1982	1	ODW VOL 23 NO 5	
BUDAPEST-LORINC	12843	NOV-DEC 1982	1	ODW VOL 23 NO 6	
BUDAPEST-LORINC	12843	JAN-FEB 1983	1	ODW VOL 24 NO 1	
BUDAPEST-LORINC	12843	MAR-APR 1983	1	ODW VOL 24 NO 2	
BUDAPEST-LORINC	12843	MAY-JUN 1983	1	ODW VOL 24 NO 3	
BUDAPEST-LORINC	12843	JUL-AUG 1983	1	ODW VOL 24 NO 4	
BUDAPEST-LORINC	12843	SEP-OCT 1983	1	ODW VOL 24 NO 5	
BUDAPEST-LORINC	12843	NOV-DEC 1983	1	ODW VOL 24 NO 6	
BUENOS AIRES	87585	1/78 -12/78	1	ODW VOL 21 NO 2	CORRECTIONS
BUENOS AIRES	87585	JAN-FEB 1980	1	ODW VOL 21 NO 1	
BUENOS AIRES	87585	MAR-APR 1980	1	ODW VOL 21 NO 2	
BUENOS AIRES	87585	MAY-JUN 1980	1	ODW VOL 21 NO 3	
BUENOS AIRES	87585	JUL-AUG 1980	1	ODW VOL 21 NO 4	
BUENOS AIRES	87585	SEP-OCT 1980	1	ODW VOL 21 NO 5	
BUENOS AIRES	87585	OCT-DEC 1980	1	ODW VOL 21 NO 6	
BUENOS AIRES	87585	JAN-FEB 1981	1	ODW VOL 22 NO 1	
BUENOS AIRES	87585	MAR-OCT 1981	1	ODW VOL 22 NO 5	
BUENOS AIRES	87585	NOV-DEC 1981	1	ODW VOL 22 NO 6	
BUENOS AIRES	87585	JAN-FEB 1982	1	ODW VOL 23 NO 1	
BUENOS AIRES	87585	MAR 1982	1	ODW VOL 23 NO 2	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
BUENOS AIRES	87585	APR-OCT 1982	1	ODW VOL 23 NO 5	
BUENOS AIRES	87585	NOV-DEC 1982	1	ODW VOL 23 NO 6	
BUENOS AIRES	87585	JAN-FEB 1983	1	ODW VOL 24 NO 1	
CACHOEIRA PAULISTA	83835	3/77 -12/81	1	ODW VOL 23 NO 4	
CACHOEIRA PAULISTA	83835	JAN-DEC 1982	1	ODW VOL 23 NO 6	
CACHOEIRA PAULISTA	83835	JAN-APR 1983	1	ODW VOL 24 NO 3	
CAGLIARI-ELMAS	16560	9/76 - 7/80	4	ODW VOL 24 NO 3	
CAGLIARI/ELMAS	16560	JAN-FEB 1980	1	ODW VOL 21 NO 2	
CAGLIARI/ELMAS	16560	MAR-APR 1980	1	ODW VOL 21 NO 4	
CAGLIARI/ELMAS	16560	MAY-AUG 1980	1	ODW VOL 21 NO 5	
CAGLIARI/ELMAS	16560	FEB 1982	1	ODW VOL 23 NO 1	NO JAN. DUE CALIBRATION
CAGLIARI/ELMAS	16560	MAR-APR 1982	1	ODW VOL 23 NO 2	
CAGLIARI/ELMAS	16560	MAY-AUG 1982	1	ODW VOL 23 NO 4	
CAGLIARI/ELMAS	16560	SEP-DEC 1982	1	ODW VOL 23 NO 6	
CAGLIARI-ELMAS	16560	JAN-FEB 1983	1	ODW VOL 24 NO 1	
CAGLIARI-ELMAS	16560	MAR-JUN 1983	1	ODW VOL 24 NO 3	
CAGLIARI-ELMAS	16560	JUL-AUG 1983	1	ODW VOL 24 NO 4	
CAGLIARI-ELMAS	16560	SEP-DEC 1983	1	ODW VOL 24 NO 6	
CAIRNS	94287	JAN-FEB 1980	1	ODW VOL 21 NO 1	
CAIRNS	94287	MAR-AUG 1980	1	ODW VOL 21 NO 4	
CAIRNS	94287	SEP-OCT 1980	1	ODW VOL 21 NO 5	
CAIRNS	94287	NOV 1980	1	ODW VOL 22 NO 4	CORRECTION
CAIRNS	94287	11/80 - 6/81	1	ODW VOL 22 NO 3	
CAIRNS	94287	JUL 1981	1	ODW VOL 22 NO 4	
CAIRNS	94287	JUL-OCT 1981	1	ODW VOL 22 NO 5	
CAIRNS	94287	NOV 1981	1	ODW VOL 23 NO 2	CORRECTION
CAIRNS	94287	DEC 1981	1	ODW VOL 22 NO 6	
CAIRNS	94287	JAN-APR 1982	1	ODW VOL 23 NO 2	
CAIRNS	94287	FEB.APR 1982	1	ODW VOL 23 NO 3	CORRECTIONS
CAIRNS	94287	MAY-AUG 1982	1	ODW VOL 23 NO 4	
CAIRNS	94287	SEP-DEC 1982	1	ODW VOL 23 NO 6	
CAIRNS	94287	JAN-APR 1983	1	ODW VOL 24 NO 2	
CAIRNS	94287	MAY 1983	1	ODW VOL 24 NO 3	
CAIRO	62371	JAN-FEB 1980	1	ODW VOL 21 NO 1	
CAIRO	62371	6/79 - 3/80	2	ODW VOL 21 NO 1	3/80 PUBLISHED EARLY
CAIRO	62371	MAR-APR 1980	1	ODW VOL 21 NO 2	
CAIRO	62371	MAY-AUG 1980	1	ODW VOL 21 NO 4	
CAIRO	62371	JUN,NOV 1980	2	ODW VOL 22 NO 4	
CAIRO	62371	SEP-OCT 1980	1	ODW VOL 21 NO 5	
CAIRO	62371	NOV-DEC 1980	1	ODW VOL 21 NO 6	
CAIRO	62371	JAN-FEB 1981	1	ODW VOL 22 NO 1	
CAIRO	62371	6/80 - 3/81	2	ODW VOL 22 NO 2	
CAIRO	62371	MAR-APR 1981	1	ODW VOL 22 NO 2	
CAIRO	62371	MAY-JUN 1981	1	ODW VOL 22 NO 3	
CAIRO	62371	JUL-AUG 1981	1	ODW VOL 22 NO 4	
CAIRO	62371	SEP-OCT 1981	1	ODW VOL 22 NO 5	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
CAIRO	62371	NOV-DEC 1981	1	ODW VOL 22 NO 6	
CAIRO	62371	MAY-DEC 1981	2	ODW VOL 22 NO 6	
CAIRO	62371	JAN-FEB 1982	3	ODW VOL 23 NO 1	FEB UNK. IN DELAYED DATA
CAIRO	62371	MAR-APR 1982	3	ODW VOL 23 NO 2	
CAIRO	62371	MAY-JUN 1982	1	ODW VOL 23 NO 3	
CAIRO	62371	MAY-DEC 1982	2	ODW VOL 24 NO 4	
CAIRO	62371	JUL-AUG 1982	1	ODW VOL 23 NO 4	
CAIRO	62371	SEP-OCT 1982	1	ODW VOL 23 NO 5	
CAIRO	62371	NOV-DEC 1982	1	ODW VOL 23 NO 6	
CAIRO	62371	JAN-FEB 1983	1	ODW VOL 24 NO 1	
CAIRO	62371	MAR-APR 1983	1	ODW VOL 24 NO 2	
CAIRO	62371	MAY-JUN 1983	1	ODW VOL 24 NO 3	
CAIRO	62371	JUL-AUG 1983	1	ODW VOL 24 NO 4	
CAPE GRIM		1/82 - 3/83	7	ODW VOL 24 NO 2	
CARIBOU	72712	JAN-FEB 1980	1	ODW VOL 21 NO 1	
CARIBOU	72712	MAR-APR 1980	1	ODW VOL 21 NO 2	
CARIBOU	72712	MAY-JUN 1980	1	ODW VOL 21 NO 3	
CARIBOU	72712	JUL-AUG 1980	1	ODW VOL 21 NO 4	
CARIBOU	72712	SEP-OCT 1980	1	ODW VOL 21 NO 5	
CARIBOU	72712	NOV-DEC 1980	1	ODW VOL 21 NO 6	
CARIBOU	72712	JAN-FEB 1981	1	ODW VOL 22 NO 1	
CARIBOU	72712	MAR-APR 1981	1	ODW VOL 22 NO 2	
CARIBOU	72712	MAY-JUN 1981	1	ODW VOL 22 NO 3	
CARIBOU	72712	JUL-AUG 1981	1	ODW VOL 22 NO 4	
CARIBOU	72712	SEP-OCT 1981	1	ODW VOL 22 NO 5	
CARIBOU	72712	NOV-DEC 1981	1	ODW VOL 22 NO 6	
CARIBOU	72712	JAN-FEB 1982	1	ODW VOL 23 NO 1	
CARIBOU	72712	MAR-APR 1982	1	ODW VOL 23 NO 2	
CARIBOU	72712	MAY-JUN 1982	1	ODW VOL 23 NO 3	
CARIBOU	72712	JUL-AUG 1982	1	ODW VOL 23 NO 4	
CARIBOU	72712	AUG-DEC 1982	1	ODW VOL 24 NO 1	CORRECTIONS
CARIBOU	72712	SEP-OCT 1982	1	ODW VOL 23 NO 5	
CARIBOU	72712	NOV-DEC 1982	1	ODW VOL 23 NO 6	
CARIBOU	72712	JAN-FEB 1983	1	ODW VOL 24 NO 1	
CARIBOU	72712	MAR-APR 1983	1	ODW VOL 24 NO 2	
CARIBOU	72712	MAY-JUN 1983	1	ODW VOL 24 NO 3	
CARIBOU	72712	JUL-AUG 1983	1	ODW VOL 24 NO 4	
CARIBOU	72712	SEP-OCT 1983	1	ODW VOL 24 NO 5	
CARIBOU	72712	NOV-DEC 1983	1	ODW VOL 24 NO 6	
CASABLANCA	60155	JAN-AUG 1980	1	ODW VOL 21 NO 4	
CASABLANCA	60155	SEP-OCT 1980	1	ODW VOL 21 NO 5	
CASABLANCA	60155	NOV-DEC 1980	1	ODW VOL 21 NO 6	
CASABLANCA	60155	JAN-FEB 1981	1	ODW VOL 22 NO 1	
CASABLANCA	60155	MAR-APR 1981	1	ODW VOL 22 NO 2	
CASABLANCA	60155	MAY-JUN 1981	1	ODW VOL 22 NO 3	
CASABLANCA	60155	JUL-AUG 1981	1	ODW VOL 22 NO 4	
CASABLANCA	60155	SEP 1981	1	ODW VOL 22 NO 5	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
CASABLANCA	60155	JAN-AUG 1982	1	ODW VOL 23 NO 4	
CASABLANCA	60155	SEP-OCT 1982	1	ODW VOL 23 NO 5	
CASABLANCA	60155	NOV-DEC 1982	1	ODW VOL 23 NO 6	
CASABLANCA	60155	JAN-FEB 1983	1	ODW VOL 24 NO 1	
CASABLANCA	60155	MAR 1983	1	ODW VOL 24 NO 2	
CASABLANCA	60155	APR-DEC 1983	1	ODW VOL 24 NO 6	
CHILCA		MAY 1975	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
CHURCHILL	72913	3/73 - 4/76	2	ODW VOL 21 NO 4	
CHURCHILL	72913	JAN-FEB 1980	5	ODW VOL 21 NO 1	
CHURCHILL	72913	MAR-APR 1980	5	ODW VOL 21 NO 2	
CHURCHILL	72913	MAY-JUN 1980	5	ODW VOL 21 NO 3	NO JUNE SONDES
CHURCHILL	72913	JUN-AUG 1980	5	ODW VOL 21 NO 4	JUN, SONDES ONLY
CHURCHILL	72913	SEP-OCT 1980	5	ODW VOL 21 NO 5	NO OCTOBER SONDES
CHURCHILL	72913	OCT-DEC 1980	5	ODW VOL 21 NO 6	OCTOBER-SONDES ONLY
CHURCHILL	72913	JAN-FEB 1981	5	ODW VOL 22 NO 1	
CHURCHILL	72913	MAR-APR 1981	5	ODW VOL 22 NO 2	
CHURCHILL	72913	MAY-JUN 1981	5	ODW VOL 22 NO 3	
CHURCHILL	72913	JUL-AUG 1981	5	ODW VOL 22 NO 4	
CHURCHILL	72913	SEP-OCT 1981	5	ODW VOL 22 NO 5	
CHURCHILL	72913	NOV-DEC 1981	5	ODW VOL 22 NO 6	
CHURCHILL	72913	JAN-FEB 1982	5	ODW VOL 23 NO 1	
CHURCHILL	72913	MAR-APR 1982	5	ODW VOL 23 NO 2	
CHURCHILL	72913	MAY-JUN 1982	5	ODW VOL 23 NO 3	NO MAY SONDES
CHURCHILL	72913	JUL-AUG 1982	5	ODW VOL 23 NO 4	
CHURCHILL	72913	SEP-OCT 1982	5	ODW VOL 23 NO 5	
CHURCHILL	72913	NOV-DEC 1982	5	ODW VOL 23 NO 6	NO DECEMBER SONDES
CHURCHILL	72913	JAN-FEB 1983	5	ODW VOL 24 NO 1	SONDE 19 JAN 83 ONLY
CHURCHILL	72913	FEB 1983	4	ODW VOL 24 NO 2	DELAYED
CHURCHILL	72913	MAR-APR 1983	1	ODW VOL 24 NO 2	
CHURCHILL	72913	MAR-APR 1983	4	ODW VOL 24 NO 4	
CHURCHILL	72913	MAY-JUN 1983	1	ODW VOL 24 NO 3	
CHURCHILL	72913	MAY 1983	4	ODW VOL 24 NO 6	
CHURCHILL	72913	JUL-AUG 1983	1	ODW VOL 24 NO 4	
CHURCHILL	72913	SEP-OCT 1983	1	ODW VOL 24 NO 5	
COLD LAKE	74120	OCT-DEC 1979	4	ODW VOL 21 NO 1	NASA FLIGHTS
COLD LAKE	74120	JAN-FEB 1980	4	ODW VOL 21 NO 2	NASA FLIGHTS
COLD LAKE	74120	MAR 1980	4	ODW VOL 21 NO 3	NASA FLTS.
COLD LAKE	74120	MAY-JUN 1980	4	ODW VOL 21 NO 4	
COLD LAKE	74120	JUL-SEP 1980	4	ODW VOL 21 NO 5	NASA FLIGHTS
COLD LAKE	74120	AUG-DEC 1980	4	ODW VOL 22 NO 1	
COLD LAKE	74120	JAN-FEB 1981	4	ODW VOL 22 NO 2	
COLD LAKE	74120	MAR-NOV 1981	4	ODW VOL 22 NO 6	
COLD LAKE	74120	1 DEC 1981	4	ODW VOL 23 NO 2	NASA FLIGHT
COOLIDGE FIELD		SEP 1974	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
DARWIN	94121	1/71 -11/74	2	ODW VOL 23 NO 4	DELAYED

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
DENVER		MAY 1977	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
DIKSON ISLAND	20674	MAR-AUG 1979	1	ODW VOL 21 NO 4	DELAYED
DIKSON ISLAND	20674	MAR-APR 1980	1	ODW VOL 22 NO 3	DELAYED
DUSHANBE	38836	MAY-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
DUSHANBE	38836	1/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
DUSHANBE	38836	MAY-AUG 1981	1	ODW VOL 22 NO 5	
DUSHANBE	38836	SEP-DEC 1981	1	ODW VOL 22 NO 6	
DUSHANBE	38836	JAN-APR 1982	1	ODW VOL 23 NO 2	
DUSHANBE	38836	MAY-DEC 1982	1	ODW VOL 24 NO 4	DELAYED
EDMONTON,STONY PL.	74119	JAN-FEB 1980	5	ODW VOL 21 NO 1	
EDMONTON,STONY PL.	74119	2/80 -10/81	2	ODW VOL 22 NO 5	
EDMONTON,STONY PL.	74119	MAR-APR 1980	5	ODW VOL 21 NO 2	
EDMONTON,STONY PL.	74119	MAY-JUN 1980	5	ODW VOL 21 NO 3	NO JUNE SONDES
EDMONTON,STONY PL.	74119	JUN-AUG 1980	5	ODW VOL 21 NO 4	JUN,SONDES ONLY
EDMONTON,STONY PL.	74119	SEP-OCT 1980	1	ODW VOL 21 NO 5	
EDMONTON,STONY PL.	74119	OCT-DEC 1980	5	ODW VOL 21 NO 6	OCTOBER-SONDES ONLY
EDMONTON,STONY PL.	74119	JAN-FEB 1981	5	ODW VOL 22 NO 1	
EDMONTON,STONY PL.	74119	MAR-APR 1981	5	ODW VOL 22 NO 2	
EDMONTON,STONY PL.	74119	MAY-JUN 1981	5	ODW VOL 22 NO 3	
EDMONTON,STONY PL.	74119	JUL-AUG 1981	5	ODW VOL 22 NO 4	
EDMONTON,STONY PL.	74119	SEP-OCT 1981	5	ODW VOL 22 NO 5	
EDMONTON,STONY PL.	74119	NOV-DEC 1981	5	ODW VOL 22 NO 6	
EDMONTON,STONY PL.	74119	JAN-FEB 1982	5	ODW VOL 23 NO 1	
EDMONTON,STONY PL.	74119	MAR-APR 1982	5	ODW VOL 23 NO 2	
EDMONTON,STONY PL.	74119	MAR-OCT 1982	2	ODW VOL 23 NO 6	
EDMONTON,STONY PL.	74119	MAY-JUN 1982	5	ODW VOL 23 NO 3	
EDMONTON,STONY PL.	74119	JUL-AUG 1982	5	ODW VOL 23 NO 4	
EDMONTON,STONY PL.	74119	SEP-OCT 1982	5	ODW VOL 23 NO 5	
EDMONTON,STONY PL.	74119	NOV-DEC 1982	5	ODW VOL 23 NO 6	
EDMONTON,STONY PL.	74119	JAN-FEB 1983	5	ODW VOL 24 NO 1	SONDE 5 JAN 83 ONLY
EDMONTON,STONY PL.	74119	FEB 1983	4	ODW VOL 24 NO 2	DELAYED
EDMONTON,STONY PL.	74119	MAR-APR 1983	1	ODW VOL 24 NO 2	
EDMONTON,STONY PL.	74119	MAR-APR 1983	4	ODW VOL 24 NO 4	
EDMONTON,STONY PL.	74119	MAY-JUN 1983	1	ODW VOL 24 NO 3	
EDMONTON,STONY PL.	74119	MAY 1983	4	ODW VOL 24 NO 6	
EDMONTON,STONY PL.	74119	JUL-AUG 1983	1	ODW VOL 24 NO 4	
EDMONTON,STONY PL.	74119	SEP-OCT 1983	1	ODW VOL 24 NO 5	
EL ARENOSILLO	08384	2/80 -10/81	1	ODW VOL 22 NO 5	
EL ARENOSILLO	08384	NOV-DEC 1981	1	ODW VOL 22 NO 6	
EL ARENOSILLO	08384	JAN-OCT 1982	1	ODW VOL 23 NO 5	
EL ARENOSILLO	08384	NOV-DEC 1982	1	ODW VOL 23 NO 6	
EL ARENOSILLO	08384	JAN-FEB 1983	1	ODW VOL 24 NO 1	
EL ARENOSILLO	08384	MAR-APR 1983	1	ODW VOL 24 NO 2	
EL ARENOSILLO	08384	MAY-JUN 1983	1	ODW VOL 24 NO 3	
EL ARENOSILLO	08384	JUL 1983	1	ODW VOL 24 NO 4	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
EL ARENOSILLO	08384	SEP-OCT 1983	1	ODW VOL 24 NO 5	
EL ARENOSILLO	08384	NOV-DEC 1983	1	ODW VOL 24 NO 6	
FRESNO		JUN 1983	1	ODW VOL 24 NO 3	
FRESNO		JUL-AUG 1983	1	ODW VOL 24 NO 4	
FRESNO		SEP-OCT 1983	1	ODW VOL 24 NO 5	
FRESNO		NOV-DEC 1983	1	ODW VOL 24 NO 6	
GARMISCH/P.		1/78 -11/79	4	ODW VOL 21 NO 2	
GIMLI	72856	JUL-AUG 1980	4	ODW VOL 21 NO 4	
GIMLI	72856	AUG 1982	4	ODW VOL 23 NO 4	
GIMLI	72856	NOV-DEC 1982	4	ODW VOL 23 NO 6	
GOOSE	72816	JAN-FEB 1980	5	ODW VOL 21 NO 1	
GOOSE	72816	2/80- 7/81	2	ODW VOL 23 NO 1	DELAYED
GOOSE	72816	MAR-APR 1980	5	ODW VOL 21 NO 2	
GOOSE	72816	APR 1980	4	ODW VOL 21 NO 3	DELAYED
GOOSE	72816	MAY-JUN 1980	5	ODW VOL 21 NO 3	NO JUNE SONDES
GOOSE	72816	JUN-AUG 1980	5	ODW VOL 21 NO 4	JUN,SONDES ONLY
GOOSE	72816	SEP-OCT 1980	5	ODW VOL 21 NO 5	NO OCTOBER SONDES
GOOSE	72816	OCT-DEC 1980	5	ODW VOL 21 NO 6	OCTOBER-SONDES ONLY
GOOSE	72816	JAN-FEB 1981	5	ODW VOL 22 NO 1	
GOOSE	72816	MAR-APR 1981	5	ODW VOL 22 NO 2	
GOOSE	72816	MAY-JUN 1981	5	ODW VOL 22 NO 3	
GOOSE	72816	JUL-AUG 1981	5	ODW VOL 22 NO 4	
GOOSE	72816	SEP-OCT 1980	1	ODW VOL 22 NO 5	
GOOSE	72816	NOV-DEC 1981	5	ODW VOL 22 NO 6	
GOOSE	72816	JAN-FEB 1982	5	ODW VOL 23 NO 1	
GOOSE	72816	FEB-SEP 1982	2	ODW VOL 23 NO 6	
GOOSE	72816	MAR-APR 1982	5	ODW VOL 23 NO 2	
GOOSE	72816	MAY-JUN 1982	5	ODW VOL 23 NO 3	
GOOSE	72816	JUL-AUG 1982	5	ODW VOL 23 NO 4	
GOOSE	72816	SEP-OCT 1982	5	ODW VOL 23 NO 5	
GOOSE	72816	NOV-DEC 1982	5	ODW VOL 23 NO 6	
GOOSE	72816	JAN-FEB 1983	5	ODW VOL 24 NO 1	SODES JANUARY ONLY
GOOSE	72816	FEB 1983	4	ODW VOL 24 NO 2	DELAYED
GOOSE	72816	MAR-APR 1983	1	ODW VOL 24 NO 2	
GOOSE	72816	MAR-APR 1983	4	ODW VOL 24 NO 4	
GOOSE	72816	MAY-JUN 1983	1	ODW VOL 24 NO 3	
GOOSE	72816	MAY 1983	4	ODW VOL 24 NO 6	
GOOSE	72816	JUL-AUG 1983	1	ODW VOL 24 NO 4	
GOOSE	72816	SEP-OCT 1983	1	ODW VOL 24 NO 5	
GREAT FALLS		MAY 1977	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
HAUTE PROVINCE		JUN 1981	2	ODW VOL 22 NO 3	
HAUTE PROVINCE		JUN 1981	4	ODW VOL 22 NO 4	
HAUTE PROVINCE		SEP 1983	2	ODW VOL 24 NO 5	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UNKNWN
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
HEISS ISLAND	20046	MAY-AUG 1979	1	ODW VOL 21 NO 4	DELAYED
HOBART	94970	2/73 - 1/81	2	ODW VOL 23 NO 4	DELAYED
HOBART	94970	JAN-FEB 1980	1	ODW VOL 21 NO 1	
HOBART	94970	MAR-AUG 1980	1	ODW VOL 21 NO 4	
HOBART	94970	SEP-OCT 1980	1	ODW VOL 21 NO 5	
HOBART	94970	12/80,2 3/81	1	ODW VOL 22 NO 4	CORRECTION
HOBART	94970	11/80 - 6/81	1	ODW VOL 22 NO 3	
HOBART	94970	JUL 1981	1	ODW VOL 22 NO 4	CORRECTION
HOBART	94970	JUL-OCT 1981	1	ODW VOL 22 NO 5	
HOBART	94970	NOV-DEC 1981	1	ODW VOL 22 NO 6	
HOBART	94970	JAN-APR 1982	1	ODW VOL 23 NO 2	
HOBART	94970	FEB-MAR 1982	1	ODW VOL 23 NO 3	CORRECTIONS
HOBART	94970	MAY-AUG 1982	1	ODW VOL 23 NO 4	
HOBART	94970	SEP-DEC 1982	1	ODW VOL 23 NO 6	
HOBART	94970	JAN-APR 1983	1	ODW VOL 24 NO 2	
HOBART	94970	APR 1983	1	ODW VOL 24 NO 3	CORRECTION
HOHENPEISSENBERG	10962	OCT 1962	7	ODW VOL 23 NO 6	CORRECTION
HOHENPEISSENBERG	10962	JAN-FEB 1980	9	ODW VOL 21 NO 1	
HOHENPEISSENBERG	10962	MAR-APR 1980	9	ODW VOL 21 NO 2	
HOHENPEISSENBERG	10962	MAY-JUN 1980	9	ODW VOL 21 NO 3	
HOHENPEISSENBERG	10962	JUL-AUG 1980	9	ODW VOL 21 NO 4	
HOHENPEISSENBERG	10962	SEP-OCT 1980	9	ODW VOL 21 NO 5	
HOHENPEISSENBERG	10962	NOV-DEC 1980	9	ODW VOL 21 NO 6	
HOHENPEISSENBERG	10962	JAN-FEB 1981	5	ODW VOL 22 NO 1	
HOHENPEISSENBERG	10962	MAR-APR 1981	9	ODW VOL 22 NO 2	NO APR. SFC.OZONE
HOHENPEISSENBERG	10962	APR-JUN 1981	7	ODW VOL 22 NO 3	
HOHENPEISSENBERG	10962	MAY-JUN 1981	5	ODW VOL 22 NO 3	
HOHENPEISSENBERG	10962	JUL-AUG 1981	9	ODW VOL 22 NO 4	
HOHENPEISSENBERG	10962	SEP-OCT 1981	9	ODW VOL 22 NO 5	
HOHENPEISSENBERG	10962	NOV-DEC 1981	9	ODW VOL 22 NO 6	
HOHENPEISSENBERG	10962	JAN-FEB 1982	5	ODW VOL 23 NO 1	
HOHENPEISSENBERG	10962	MAR-APR 1982	9	ODW VOL 23 NO 2	NO MARCH SURFACE OZONE
HOHENPEISSENBERG	10962	JAN-MAR 1982	7	ODW VOL 23 NO 3	
HOHENPEISSENBERG	10962	MAY-JUN 1982	9	ODW VOL 23 NO 3	SFC/TOTOZ/SONDS
HOHENPEISSENBERG	10962	JUL-AUG 1982	9	ODW VOL 23 NO 4	
HOHENPEISSENBERG	10962	SEP-OCT 1982	9	ODW VOL 23 NO 5	
HOHENPEISSENBERG	10962	NOV-DEC 1982	9	ODW VOL 23 NO 6	SFC/TOTOZ/SONDES
HOHENPEISSENBERG	10962	JAN-FEB 1983	9	ODW VOL 24 NO 1	SFC,TOTOZ,SONDES
HOHENPEISSENBERG	10962	MAR-APR 1983	9	ODW VOL 24 NO 2	SFCOZ,TOTOZ,SONDES
HOHENPEISSENBERG	10962	MAY-JUN 1983	9	ODW VOL 24 NO 3	SFCOZ,TOTOZ,SONDES
HOHENPEISSENBERG	10962	JUL-AUG 1983	9	ODW VOL 24 NO 4	SFCOZ,TOTOZ,SONDES
HOHENPEISSENBERG	10962	SEP-OCT 1983	9	ODW VOL 24 NO 5	SFCOZ SEPTEMBER DELAYED
HOHENPEISSENBERG	10962	SEP-DEC 1983	9	ODW VOL 24 NO 6	SEP DELAYED SFCOZ ONLY
HRADEC KRALOVE	11648	JAN-FEB 1980	1	ODW VOL 21 NO 1	
HRADEC KRALOVE	11648	MAR-APR 1980	1	ODW VOL 21 NO 2	
HRADEC KRALOVE	11648	MAY-JUN 1980	1	ODW VOL 21 NO 3	
HRADEC KRALOVE	11648	JUL-AUG 1980	1	ODW VOL 21 NO 4	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
HRADEC KRALOVE	11648	8,11-12 1980	1	ODW VOL 21 NO 6	AUGUST,CORRECTIONS
HRADEC KRALOVE	11648	SEP-OCT 1980	1	ODW VOL 21 NO 5	
HRADEC KRALOVE	11648	JAN-FEB 1981	1	ODW VOL 22 NO 1	
HRADEC KRALOVE	11648	MAR-APR 1981	1	ODW VOL 22 NO 2	
HRADEC KRALOVE	11648	MAY-JUN 1981	1	ODW VOL 22 NO 3	
HRADEC KRALOVE	11648	JUL-AUG 1981	1	ODW VOL 22 NO 4	
HRADEC KRALOVE	11648	SEP-OCT 1981	1	ODW VOL 22 NO 5	
HRADEC KRALOVE	11648	NOV-DEC 1981	1	ODW VOL 22 NO 6	
HRADEC KRALOVE	11648	JAN-FEB 1982	1	ODW VOL 23 NO 1	
HRADEC KRALOVE	11648	MAR-APR 1982	1	ODW VOL 23 NO 2	
HRADEC KRALOVE	11648	MAY-JUN 1982	1	ODW VOL 23 NO 3	
HRADEC KRALOVE	11648	JUL-AUG 1982	1	ODW VOL 23 NO 4	
HRADEC KRALOVE	11648	SEP-OCT 1982	1	ODW VOL 23 NO 5	
HRADEC KRALOVE	11648	NOV-DEC 1982	1	ODW VOL 23 NO 6	
HRADEC KRALOVE	11648	JAN-FEB 1983	1	ODW VOL 24 NO 1	
HRADEC KRALOVE	11648	MAR-APR 1983	1	ODW VOL 24 NO 2	
HRADECKRALOVE	11648	MAY-JUN 1983	1	ODW VOL 24 NO 3	
HRADEC KRALOVE	11648	JUL-AUG 1983	1	ODW VOL 24 NO 4	
HRADEC KRALOVE	11648	SEP-OCT 1983	1	ODW VOL 24 NO 5	
HRADEC KRALOVE	11648	NOV-DEC 1983	1	ODW VOL 24 NO 6	
HUANCAYO	84633	JAN-FEB 1980	1	ODW VOL 21 NO 1	
HUANCAYO	84633	MAR-APR 1980	1	ODW VOL 21 NO 2	
HUANCAYO	84633	MAY-JUN 1980	1	ODW VOL 21 NO 3	
HUANCAYO	84633	JUL-AUG 1980	1	ODW VOL 21 NO 4	
HUANCAYO	84633	SEP-OCT 1980	1	ODW VOL 21 NO 5	
HUANCAYO	84633	NOV-DEC 1980	1	ODW VOL 21 NO 6	
HUANCAYO	84633	JAN-FEB 1981	1	ODW VOL 22 NO 1	
HUANCAYO	84633	MAR-APR 1981	1	ODW VOL 22 NO 2	
HUANCAYO	84633	MAY-JUN 1981	1	ODW VOL 22 NO 3	
HUANCAYO	84633	JUL-AUG 1981	1	ODW VOL 22 NO 4	
HUANCAYO	84633	SEP-OCT 1981	1	ODW VOL 22 NO 5	
HUANCAYO		NOV-DEC 1981	1	ODW VOL 23 NO 1	DELAYED
HUANCAYO	84633	JAN-FEB 1982	1	ODW VOL 23 NO 1	
HUANCAYO	84633	MAR-APR 1982	1	ODW VOL 23 NO 2	
HUANCAYO	84633	MAY-JUN 1982	1	ODW VOL 23 NO 3	
HUANCAYO	84633	JUL-AUG 1982	1	ODW VOL 23 NO 4	
HUANCAYO	84633	SEP-OCT 1982	1	ODW VOL 23 NO 5	
HUANCAYO	84633	NOV-DEC 1982	1	ODW VOL 23 NO 6	
HUANCAYO	84633	JAN-FEB 1983	1	ODW VOL 24 NO 1	
HUANCAYO	84633	MAR-APR 1983	1	ODW VOL 24 NO 2	
HUANCAYO	84633	MAY-JUN 1983	1	ODW VOL 24 NO 3	
HUANCAYO	84633	JUL-AUG 1983	1	ODW VOL 24 NO 4	
HUANCAYO	84633	SEP-OCT 1983	1	ODW VOL 24 NO 5	
HUANCAYO	84633	NOV-DEC 1983	1	ODW VOL 24 NO 6	
INVERCARGILL	93844	9/71 - 7/79	2	ODW VOL 21 NO 4	CORRECTIONS
INVERCARGILL	93844	4/72- 9/72	1	ODW VOL 23 NO 2	PREVIOUSLY UNPUBLISHED
INVERCARGILL	93844	MAY 1972	1	ODW VOL 23 NO 4	CONS.TO PREV.UNPUBD.DATA
INVERCARGILL	93844	3/71 -10/79	2	ODW VOL 21 NO 1	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UNKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
INVERCARGILL	93844	7/78 - 6/81	2	ODW VOL 22 NO 6	CORRECTIONS
INVERCARGILL	93844	JAN-FEB 1980	1	ODW VOL 21 NO 1	
INVERCARGILL	93844	MAR-AUG 1980	1	ODW VOL 21 NO 4	
INVERCARGILL	93844	SEP-OCT 1980	1	ODW VOL 21 NO 5	
INVERCARGILL	93844	OCT-DEC 1980	1	ODW VOL 21 NO 6	OCTOBER,CORRECTIONS
INVERCARGILL	93844	JAN-FEB 1981	1	ODW VOL 22 NO 1	
INVERCARGILL	93844	1/80 - 6/81	2	ODW VOL 22 NO 4	
INVERCARGILL	93844	MAR-APR 1981	1	ODW VOL 22 NO 2	
INVERCARGILL	93844	MAY-JUN 1981	1	ODW VOL 22 NO 3	
INVERCARGILL	93844	OCT 1981	1	ODW VOL 22 NO 5	
INVERCARGILL	93844	NOV-DEC 1981	3	ODW VOL 22 NO 6	NO DECEMBER UMKEHRS
INVERCARGILL	93844	JAN-FEB 1982	3	ODW VOL 23 NO 1	NO JANUARY UMKEHRS
INVERCARGILL	93844	MAR-APR 1982	3	ODW VOL 23 NO 2	
INVERCARGILL	93844	MAY-JUN 1982	1	ODW VOL 23 NO 3	
INVERCARGILL	93844	JUL-AUG 1982	1	ODW VOL 23 NO 5	
INVERCARGILL	93844	9/82 - 8/83	1	ODW VOL 24 NO 4	
INVERCARGILL	93844	9/82,5-8/83	1	ODW VOL 24 NO 5	CORRECTIONS
INVERCARGILL	93844	JAN-DEC 1983	1	ODW VOL 24 NO 6	NO MAY TO AUGUST DATA
INVERCARGILL	93844	5/82 -12/83	2	ODW VOL 24 NO 6	
IRKUTSK	30710	MAY-NOV 1979	1	ODW VOL 21 NO 4	DELAYED
IRKUTSK	30710	1-2 ,7 1979	1	ODW VOL 22 NO 3	CORRECTIONS
IRKUTSK	30710	5/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
IRKUTSK	30710	MAY-AUG 1981	1	ODW VOL 22 NO 5	
IRKUTSK	30710	SEP-DEC 1981	1	ODW VOL 22 NO 6	
IRKUTSK	30710	JAN-APR 1982	1	ODW VOL 23 NO 2	
IRKUTSK	30710	MAR 1982	1	ODW VOL 23 NO 6	CORRECTIONS
IRKUTSK	30710	MAY-AUG 1982	1	ODW VOL 24 NO 4	DELAYED
KAGOSHIMA	47827	JAN-DEC 1979	4	ODW VOL 21 NO 2	
KAGOSHIMA	47827	APR 1980	2	ODW VOL 21 NO 5	CORRECTIONS
KAGOSHIMA	47827	JAN-APR 1980	3	ODW VOL 21 NO 2	JAN,APR UMK.ONLY
KAGOSHIMA	47827	JAN-DEC 1980	4	ODW VOL 22 NO 1	CORRECTIONS
KOGOSHIMA	47827	MAY-JUN 1980	1	ODW VOL 21 NO 3	
KAGOSHIMA	47827	JUL-AUG 1980	1	ODW VOL 21 NO 4	
KAGOSHIMA	47827	SEP-OCT 1980	3	ODW VOL 21 NO 5	
KAGOSHIMA	47827	NOV-DEC 1980	3	ODW VOL 21 NO 6	NO DECEMBER UMKEHRS
KAGOSHIMA	47827	JAN-FEB 1981	1	ODW VOL 22 NO 1	
KAGOSHIMA	47827	MAR-APR 1981	3	ODW VOL 22 NO 2	NO APR. UMKEHRS
KAGOSHIMA	47827	MAY-JUN 1981	1	ODW VOL 22 NO 3	
KAGOSHIMA	47827	JUL-AUG 1981	1	ODW VOL 22 NO 4	
KAGOSHIMA	47827	SEP-OCT 1981	1	ODW VOL 22 NO 5	
KAGOSHIMA	47827	NOV-DEC 1981	3	ODW VOL 22 NO 6	
KAGOSHIMA	47827	JAN-DEC 1981	5	ODW VOL 23 NO 1	CORRECTIONS
KAGOSHIMA	47827	JAN-FEB 1982	3	ODW VOL 23 NO 1	
KAGOSHIMA	47827	JAN-DEC 1982	4	ODW VOL 23 NO 6	
KAGOSHIMA	47827	MAR-APR 1982	1	ODW VOL 23 NO 2	
KAGOSHIMA	47827	MAR-APR 1982	2	ODW VOL 24 NO 1	DELAYED
KAGOSHIMA	47827	MAY-JUN 1982	3	ODW VOL 23 NO 3	21 MAY UMKEHR ONLY
KAGOSHIMA	47827	JUL-AUG 1982	1	ODW VOL 23 NO 4	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
KAGOSHIMA	47827	SEP-OCT 1982	3	ODW VOL 23 NO 5	NO SEPTEMBER UMKEHRS
KAGOSHIMA	47827	NOV-DEC 1982	3	ODW VOL 23 NO 6	NO NOVEMBER UMKEHRS
KAGOSHIMA	47827	JAN-FEB 1983	3	ODW VOL 24 NO 1	
KAGOSHIMA	47827	MAR-APR 1983	1	ODW VOL 24 NO 2	
KAGOSHIMA	47827	MAY-JUN 1983	3	ODW VOL 24 NO 3	11/5/83 UMKEHR ONLY
KAGOSHIMA	47827	JUL-AUG 1983	3	ODW VOL 24 NO 4	
KAGOSHIMA	47827	SEP-OCT 1983	3	ODW VOL 24 NO 5	
KAGOSHIMA	47827	NOV-DEC 1983	3	ODW VOL 24 NO 6	
KIEV	33345	MAR 1979	1	ODW VOL 22 NO 3	CORRECTIONS
KIEV	33345	MAY-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
KIEV	33345	JAN-DEC 1980	1	ODW VOL 22 NO 3	DELAYED
KIEV	33345	JAN-AUG 1981	1	ODW VOL 22 NO 5	
KIEV	33345	SEP-DEC 1981	1	ODW VOL 22 NO 6	
KIEV	33345	JAN-APR 1982	1	ODW VOL 23 NO 2	
KIEV	33345	MAY-DEC 1982	1	ODW VOL 24 NO 4	DELAYED
KODAIKANAL	43339	8 APR 1979	2	ODW VOL 21 NO 2	CORRECTION
KODAIKANAL	43339	JAN-APR 1980	3	ODW VOL 21 NO 2	FEB.UMK.ONLY
KODAIKANAL	43339	MAY-JUN 1980	1	ODW VOL 21 NO 3	
KODAIKANAL	43339	JUL-AUG 1980	1	ODW VOL 21 NO 4	
KODAIKANAL	43339	9/80 - 1081	3	ODW VOL 22 NO 1	UMKEHR 29/10/80 ONLY
KODAIKANAL	43339	FEB-APR 1981	1	ODW VOL 22 NO 2	
KODAIKANAL	43339	MAY-JUN 1981	1	ODW VOL 22 NO 3	
KODAIKANAL	43339	JUL-OCT 1981	1	ODW VOL 22 NO 6	
KODAIKANAL	43339	NOV-DEC 1981	1	ODW VOL 23 NO 1	DELAYED
KODAIKANAL	43339	JAN-FEB 1982	1	ODW VOL 23 NO 2	
KODAIKANAL	43339	MAR-MAY 1982	3	ODW VOL 23 NO 3	13 FEB UMKEHR ONLY
KODAIKANAL	43339	JUN-DEC 1982	3	ODW VOL 24 NO 1	DELAYED
KODAIKANAL	43339	MAR 1983	2	ODW VOL 24 NO 2	
KOUPOU		MAR 1974	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
KUIBYSHEV	28900	MAY-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
KUIBYSHEV	28500	APR,JUL 1979	1	ODW VOL 22 NO 3	CORRECTIONS
KUIBYSHEV	28500	JAN-OCT 1980	1	ODW VOL 22 NO 3	DELAYED
KUIBYSHEV	28900	FEB-AUG 1981	1	ODW VOL 22 NO 5	
KUIBYSHEV	28900	SEP-DEC 1981	1	ODW VOL 22 NO 6	
KUNMING	56778	JAN-FEB 1980	1	ODW VOL 21 NO 1	
KUNMING	56778	MAR-APR 1980	1	ODW VOL 21 NO 2	
KUNMING	56778	MAY-JUN 1980	1	ODW VOL 21 NO 3	
KUNMING	56778	JUL-AUG 1980	1	ODW VOL 21 NO 4	
KUNMING	56778	SEP-OCT 1980	1	ODW VOL 21 NO 5	
KUNMING	56778	NOV-DEC 1980	1	ODW VOL 21 NO 6	
KUNMING	56778	JAN-FEB 1981	1	ODW VOL 22 NO 1	
KUNMING	56778	MAR-APR 1981	1	ODW VOL 22 NO 2	
KUNMING	56778	MAY-JUN 1981	1	ODW VOL 22 NO 3	
KUNMING	56778	JUL-AUG 1981	1	ODW VOL 22 NO 4	
KUNMING	56778	SEP-OCT 1981	1	ODW VOL 22 NO 5	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
KUNMING	56778	NOV-DEC 1981	1	ODW VOL 22 NO 6	
KUNMING	56778	JAN-FEB 1982	1	ODW VOL 23 NO 1	
KUNMING	56778	MAR-APR 1982	1	ODW VOL 23 NO 2	
KUNMING	56778	MAY-JUN 1982	1	ODW VOL 23 NO 3	
KUNMING	56778	JUL-AUG 1982	1	ODW VOL 23 NO 4	
KUNMING	56778	SEP-OCT 1982	1	ODW VOL 23 NO 5	
KUNMING	56778	NOV-DEC 1982	1	ODW VOL 23 NO 6	
KUNMING	56778	JAN-FEB 1983	1	ODW VOL 24 NO 1	
KUNMING	56778	MAR-APR 1983	1	ODW VOL 24 NO 2	
KUNMING	56779	MAY-JUN 1983	1	ODW VOL 24 NO 3	
KUNMING	56778	JUL-AUG 1983	1	ODW VOL 24 NO 4	
KUNMING	56778	SEP-OCT 1983	1	ODW VOL 24 NO 5	
KUNMING	56778	NOV-DEC 1983	1	ODW VOL 24 NO 6	
LEGIONOWO	12374	JAN-DEC 1979	4	ODW VOL 21 NO 3	
LEGIONOWO	12374	JAN-JUL 1980	4	ODW VOL 21 NO 4	
LEGIONOWO	12374	AUG-NOV 1980	4	ODW VOL 21 NO 6	
LEGIONOWO	12374	12/80- 2/81	4	ODW VOL 22 NO 1	
LEGIONOWO	12374	MAR 1981	4	ODW VOL 22 NO 2	
LEGIONOWO	12374	MAY-JUN 1981	4	ODW VOL 22 NO 3	
LEGIONOWO	12374	JUL 1981	4	ODW VOL 22 NO 4	
LEGIONOWO	12374	AUG-OCT 1981	4	ODW VOL 22 NO 6	
LEGIONOWO	12374	28 OCT 1981	4	ODW VOL 24 NO 2	CORRECTION
LEGIONOWO	12374	11/81- 4/82	4	ODW VOL 23 NO 2	
LEGIONOWO	12374	JUL-AUG 1982	4	ODW VOL 23 NO 6	
LEGIONOWO	12374	9/82 - 3/83	4	ODW VOL 24 NO 2	
LEGIONOWO	12374	JUL-DEC 1983	4	ODW VOL 24 NO 6	
LENINGRAD	26063	MAY-NOV 1979	1	ODW VOL 21 NO 4	DELAYED
LENINGRAD	26063	MAR 1979	1	ODW VOL 22 NO 3	CORRECTIONS
LENINGRAD	26063	1/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
LENINGRAD	26063	MAY-AUG 1981	1	ODW VOL 22 NO 5	
LENINGRAD	26063	SEP-NOV 1981	1	ODW VOL 22 NO 6	
LENINGRAD	26063	FEB-APR 1982	1	ODW VOL 23 NO 2	
LENINGRAD	26063	MAY-DEC 1982	1	ODW VOL 24 NO 4	DELAYED
LERWICK	03005	11/79-4/80	1	ODW VOL 21 NO 2	
LERWICK	03005	MAY-JUN 1980	1	ODW VOL 21 NO 3	
LERWICK	03005	JUL-AUG 1980	1	ODW VOL 21 NO 4	
LERWICK	03005	SEP-OCT 1980	1	ODW VOL 21 NO 5	
LERWICK	03005	NOV-DEC 1980	1	ODW VOL 21 NO 6	
LERWICK	03005	JAN-FEB 1981	1	ODW VOL 22 NO 1	
LERWICK	03005	MAY-JUN 1981	1	ODW VOL 22 NO 3	
LERWICK	03005	JUL-SEP 1981	1	ODW VOL 22 NO 5	
LERWICK	03005	FEB-OCT 1982	1	ODW VOL 23 NO 5	
LERWICK	03005	NOV-DEC 1982	1	ODW VOL 23 NO 6	
LERWICK	03005	JAN-FEB 1983	1	ODW VOL 24 NO 1	
LERWICK	03005	MAR-APR 1983	1	ODW VOL 24 NO 2	
LERWICK	03005	MAY-JUN 1983	1	ODW VOL 24 NO 3	
LERWICK	03005	JUL-AUG 1983	1	ODW VOL 24 NO 4	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
LERWICK	03005	SEP-OCT 1983	1	ODM VOL 24 NO 5	
LERWICK	03005	NOV-DEC 1983	1	ODM VOL 24 NO 6	
LINDENBERG	09393	JAN-FEB 1980	4	ODM VOL 21 NO 1	
LINDENBERG	09393	MAR-APR 1980	4	ODM VOL 21 NO 2	
LINDENBERG	09393	MAY-JUN 1980	4	ODM VOL 21 NO 3	
LINDENBERG	09393	JUL-AUG 1980	4	ODM VOL 21 NO 4	
LINDENBERG	09393	SEP-OCT 1980	4	ODM VOL 21 NO 5	
LINDENBERG	09393	02 SEP 1981	4	ODM VOL 23 NO 1	SUPPLEMENTARY DATA
LINDENBERG	09393	NOV-DEC 1980	4	ODM VOL 21 NO 6	
LINDENBERG	09393	9/80 - 2/81	4	ODM VOL 22 NO 1	
LINDENBERG	09393	FEB-JUN 1981	4	ODM VOL 22 NO 3	
LINDENBERG	09393	JUL-AUG 1981	4	ODM VOL 22 NO 4	
LINDENBERG	09393	SEP-OCT 1981	4	ODM VOL 22 NO 5	
LINDENBERG	09393	NOV-DEC 1981	4	ODM VOL 22 NO 6	
LINDENBERG	09393	JAN-FEB 1982	4	ODM VOL 23 NO 1	
LINDENBERG	09393	27/1,17/2/82	4	ODM VOL 23 NO 2	TWO CORRECTIONS
LINDENBERG	09393	MAR-APR 1982	4	ODM VOL 23 NO 2	
LINDENBERG	09393	MAY-JUN 1982	4	ODM VOL 23 NO 3	
LINDENBERG	09393	JUL-AUG 1982	4	ODM VOL 23 NO 4	
LINDENBERG	09393	SEP-OCT 1982	4	ODM VOL 23 NO 5	
LINDENBERG	09393	NOV-DEC 1982	4	ODM VOL 23 NO 6	
LINDENBERG	09393	JAN-FEB 1983	4	ODM VOL 24 NO 1	
LINDENBERG	09393	MAR-APR 1983	4	ODM VOL 24 NO 2	
LINDENBERG	09393	MAY-JUN 1983	4	ODM VOL 24 NO 3	
LINDENBERG	09393	JUL-AUG 1983	1	ODM VOL 24 NO 4	
LINDENBERG	09393	SEP-OCT 1983	4	ODM VOL 24 NO 5	
LINDENBERG	09393	NOV-DEC 1983	4	ODM VOL 24 NO 6	
LISBON	08536	JAN-FEB 1980	3	ODM VOL 21 NO 1	
LISBON	08536	JAN-APR 1980	2	ODM VOL 21 NO 3	DELAYED
LISBON	08536	MAR 1980	3	ODM VOL 21 NO 2	
LISBON	08536	APR-JUN 1980	3	ODM VOL 21 NO 3	
LISBON	08536	JUL-AUG 1980	3	ODM VOL 21 NO 4	NO JULY UNKEHR
LISBON	08536	SEP-OCT 1980	3	ODM VOL 21 NO 5	
LISBON	08536	NOV-DEC 1980	3	ODM VOL 21 NO 6	
LISBON	08536	JAN-FEB 1981	3	ODM VOL 22 NO 1	
LISBON	08536	MAR-APR 1981	3	ODM VOL 22 NO 2	
LISBON	08536	MAY-JUN 1981	3	ODM VOL 22 NO 3	
LISBON	08536	JUL-OCT 1981	3	ODM VOL 22 NO 5	
LISBON	08536	AUG,DEC 1980	2	ODM VOL 22 NO 1	CORRECTIONS
LISBON	08536	OCT 1981	2	ODM VOL 22 NO 6	CORRECTIONS
LISBON	08536	NOV-DEC 1981	3	ODM VOL 22 NO 6	
LISBON	08536	JAN-FEB 1982	3	ODM VOL 23 NO 1	
LISBON	08536	MAR-APR 1982	3	ODM VOL 23 NO 2	
LISBON	08536	MAY-JUN 1982	3	ODM VOL 23 NO 3	
LISBON	08536	30/5,29/6 82	2	ODM VOL 23 NO 4	CORRECTIONS
LISBON	08536	JUL-AUG 1982	3	ODM VOL 23 NO 4	
LISBON	08536	15 JULY 1982	2	ODM VOL 23 NO 5	CORRECTION.
LISBON	08536	OCT-DEC 1982	3	ODM VOL 23 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UNKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
LISBON	08536	SEP 1982	3	ODW VOL 23 NO 5	
LISBON	08536	OCT-DEC 1982	2	ODW VOL 24 NO 2	CORRECTION
LISBON	08536	JAN-FEB 1983	3	ODW VOL 24 NO 1	
LISBON	08536	MAR-APR 1983	3	ODW VOL 24 NO 2	NO APRIL UMKEHRS
LISBON	08536	MAY-JUN 1983	3	ODW VOL 24 NO 3	
LISBON	08536	JUL-AUG 1983	1	ODW VOL 24 NO 4	
LISBON	08536	JUL-SEP 1983	2	ODW VOL 24 NO 5	
LISBON	08536	SEP 1983	1	ODW VOL 24 NO 5	
LISBON	08536	OCT-DEC 1983	3	ODW VOL 24 NO 6	NO NOVEMBER UMKEHRS
LONG VIEW		JUL,OCT 1976	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
MACQUARIE ISLAND	94998	1/70 -12/80	2	ODW VOL 23 NO 4	DELAYED
MACQUARIE ISLAND	94998	10/79 - 2/80	1	ODW VOL 21 NO 4	
MACQUARIE ISLAND	94998	MAR-APR 1980	1	ODW VOL 22 NO 4	CORRECTION
MACQUARIE ISLAND	94998	JAN-DEC 1980	1	ODW VOL 22 NO 3	
MACQUARIE ISLAND	94998	JAN-AUG 1981	1	ODW VOL 22 NO 5	
MCDONALD OBS.		APR-JUN 1969	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
MAGNY-LES-HAMEAUX		JUN-AUG 1980	1	ODW VOL 21 NO 4	
MAGNY-LES-HAMEAUX		SEP-OCT 1980	1	ODW VOL 21 NO 5	
MAGNY-LES-HAMEAUX		NOV-DEC 1980	1	ODW VOL 21 NO 6	
MAGNY-LES-HAMEAUX		JAN-FEB 1981	1	ODW VOL 22 NO 1	
MAGNY-LES-HAMEAUX		MAR-APR 1981	1	ODW VOL 22 NO 2	
MAGNY-LES-HAMEAUX		MAY 1981	1	ODW VOL 22 NO 3	
MAGNY-LES-HAMEAUX		OCT-DEC 1981	1	ODW VOL 22 NO 6	
MAGNY-LES-HAMEAUX		JAN-FEB 1982	1	ODW VOL 23 NO 1	
MAGNY-LES-HAMEAUX		MAR-APR 1982	1	ODW VOL 23 NO 2	
MAGNY-LES-HAMEAUX		MAY-JUN 1982	1	ODW VOL 23 NO 3	
MAGNY-LES-HAMEAUX		JUL 1982	1	ODW VOL 23 NO 4	
MAHE		JAN 1980	1	ODW VOL 21 NO 1	
MAHE		FEB-APR 1980	1	ODW VOL 21 NO 2	
MAHE		MAY-JUN 1980	1	ODW VOL 21 NO 3	
MAHE		JUL-AUG 1980	1	ODW VOL 21 NO 4	
MAHE		SEP-OCT 1980	1	ODW VOL 21 NO 5	
MAHE		NOV-DEC 1980	1	ODW VOL 21 NO 6	
MAHE		JAN-FEB 1981	1	ODW VOL 22 NO 1	
MAHE		APR-JUN 1981	1	ODW VOL 22 NO 3	
MAHE		JUL-SEP 1981	1	ODW VOL 22 NO 5	
MAHE		OCT-NOV 1981	1	ODW VOL 22 NO 6	
MAHE		DEC 81-OCT82	1	ODW VOL 23 NO 5	
MAHE		NOV-DEC 1982	1	ODW VOL 23 NO 6	
MAHE		JAN-FEB 1983	1	ODW VOL 24 NO 1	
MAHE		MAR-APR 1983	1	ODW VOL 24 NO 2	
MAHE		MAY-JUN 1983	1	ODW VOL 24 NO 3	
MAHE		JUL-AUG 1983	1	ODW VOL 24 NO 4	
MAHE		SEP 1983	1	ODW VOL 24 NO 5	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
MANILA		JAN-FEB 1980	1	ODW VOL 21 NO 1	
MANILA		MAR-APR 1980	1	ODW VOL 21 NO 2	
MANILA		MAY-JUN 1980	1	ODW VOL 21 NO 3	
MANILA		JUL-AUG 1980	1	ODW VOL 21 NO 4	
MANILA		NOV 1980	1	ODW VOL 21 NO 6	
MANILA		1,2,5,6/1981	1	ODW VOL 22 NO 3	1,2 DELAYED IN THE MAILS
MANILA		MAR-APR 1981	1	ODW VOL 22 NO 2	
MANILA		9,11 -12/80	1	ODW VOL 22 NO 3	
MANILA		JUL-AUG 1981	1	ODW VOL 22 NO 4	
MANILA		SEP-OCT 1981	1	ODW VOL 22 NO 5	
MANILA		NOV-DEC 1981	1	ODW VOL 22 NO 6	
MANILA		NOV-DEC 1982	1	ODW VOL 23 NO 6	
MANILA		JAN-FEB 1983	1	ODW VOL 24 NO 1	
MANILA		MAR-APR 1983	1	ODW VOL 24 NO 2	
MANILA		MAY-JUN 1983	1	ODW VOL 24 NO 3	
MANILA		JUL-AUG 1983	1	ODW VOL 24 NO 4	
MANILA		SEP-OCT 1983	1	ODW VOL 24 NO 5	
MANILA		NOV-DEC 1983	1	ODW VOL 24 NO 6	
MAPUTO	67341	5/79-12/80	1	ODW VOL 21 NO 6	
MAPUTO	67341	JAN-FEB 1981	1	ODW VOL 22 NO 1	
MAPUTO	67341	MAR-APR 1981	1	ODW VOL 22 NO 2	
MAPUTO	67341	MAY-JUN 1981	1	ODW VOL 22 NO 3	
MAPUTO	67341	JUL-AUG 1981	1	ODW VOL 22 NO 4	
MAPUTO	67341	JUL-OCT 1981	1	ODW VOL 22 NO 5	
MAPUTO	67341	NOV-DEC 1981	1	ODW VOL 22 NO 6	
MAPUTO	67341	JAN-FEB 1982	1	ODW VOL 23 NO 1	
MAPUTO	67341	MAR-APR 1982	1	ODW VOL 23 NO 2	
MAPUTO	67341	MAY-AUG 1982	1	ODW VOL 23 NO 4	
MAPUTO	67341	JAN-FEB 1981	1	ODW VOL 22 NO 1	
MAPUTO	67341	MAR-APR 1981	1	ODW VOL 22 NO 2	
MAPUTO	67341	MAY-JUN 1981	1	ODW VOL 22 NO 3	
MAPUTO	67341	JUL-AUG 1981	1	ODW VOL 22 NO 4	
MAPUTO	67341	JUL-OCT 1981	1	ODW VOL 22 NO 5	
MAPUTO	67341	NOV-DEC 1981	1	ODW VOL 22 NO 6	
MAPUTO	67341	JAN-FEB 1982	1	ODW VOL 23 NO 1	
MAPUTO	67341	MAR-APR 1982	1	ODW VOL 23 NO 2	
MAPUTO	67341	MAY-AUG 1982	1	ODW VOL 23 NO 4	
MAPUTO	67341	SEP-OCT 1982	1	ODW VOL 23 NO 5	
MAPUTO	67341	11/82-2/83	1	ODW VOL 24 NO 1	WITH DELAYED/CON DATA
MAPUTO	67341	MAR-JUN 1983	1	ODW VOL 24 NO 3	
MAPUTO	67341	JUL-AUG 1983	1	ODW VOL 24 NO 4	
MAUNA LOA		JAN-DEC 1979	7	ODW VOL 21 NO 3	CORRECTIONS
MAUNA LOA		SEP-DEC 1979	7	ODW VOL 22 NO 3	CORRECTIONS
MAUNA LOA		JAN-FEB 1980	1	ODW VOL 21 NO 1	
MAUNA LOA		JAN-SEP 1980	7	ODW VOL 22 NO 3	DELAYED
MAUNA LOA		MAR-APR 1980	1	ODW VOL 21 NO 2	
MAUNA LOA		MAY-JUN 1980	1	ODW VOL 21 NO 3	
MAUNA LOA		6/80 -12/82	7	ODW VOL 24 NO 4	CORRECTIONS

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
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3. TYPE 1,2
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5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
MAUNA LOA		JUL-AUG 1980	1	ODW VOL 21 NO 4	
MAUNA LOA		SEP-OCT 1980	1	ODW VOL 21 NO 5	
MAUNA LOA		NOV-DEC 1980	1	ODW VOL 21 NO 6	
MAUNA LOA		JAN-FEB 1981	1	ODW VOL 22 NO 1	
MAUNA LOA		MAR-APR 1981	1	ODW VOL 22 NO 2	
MAUNA LOA		MAY-JUN 1981	1	ODW VOL 22 NO 3	
MAUNA LOA		JUL-AUG 1981	1	ODW VOL 22 NO 4	
MAUNA LOA		SEP-OCT 1981	1	ODW VOL 22 NO 5	
MAUNA LOA		NOV-DEC 1981	1	ODW VOL 22 NO 6	
MAUNA LOA		JAN-FEB 1982	1	ODW VOL 23 NO 1	
MAUNA LOA		MAR-APR 1982	1	ODW VOL 23 NO 2	
MAUNA LOA		MAY-JUN 1982	1	ODW VOL 23 NO 3	
MAUNA LOA		5/82 -12/83	2	ODW VOL 24 NO 6	
MAUNA LOA		JUL-OCT 1982	1	ODW VOL 24 NO 1	OMITTED PREVIOUSLY
MAUNA LOA		NOV-DEC 1982	1	ODW VOL 23 NO 6	
MAUNA LOA		JAN-FEB 1983	1	ODW VOL 24 NO 1	
MAUNA LOA		MAR-APR 1983	1	ODW VOL 24 NO 2	
MAUNA LOA		MAY-JUN 1983	1	ODW VOL 24 NO 3	
MAUNA LOA		JUL-AUG 1983	1	ODW VOL 24 NO 4	
MAUNA LOA		SEP-OCT 1983	1	ODW VOL 24 NO 5	
MAUNA LOA		NOV-DEC 1983	1	ODW VOL 24 NO 6	
MEXICO CITY		JAN-FEB 1980	1	ODW VOL 21 NO 1	
MEXICO CITY		MAR-APR 1980	1	ODW VOL 21 NO 2	
MEXICO CITY		MAY-JUN 1980	1	ODW VOL 21 NO 3	
MEXICO CITY		JUL-AUG 1980	1	ODW VOL 21 NO 4	
MEXICO CITY		SEP-OCT 1980	1	ODW VOL 21 NO 5	
MEXICO CITY		NOV-DEC 1980	1	ODW VOL 21 NO 6	
MEXICO CITY		JAN-FEB 1981	1	ODW VOL 22 NO 1	
MEXICO CITY		MAR-JUN 1981	1	ODW VOL 22 NO 3	
MEXICO CITY		JUL-AUG 1981	1	ODW VOL 22 NO 5	
MEXICO CITY		SEP-DEC 1981	1	ODW VOL 23 NO 1	DELAYED
MEXICO CITY		JAN-APR 1982	1	ODW VOL 23 NO 2	
MEXICO CITY		MAY-JUN 1982	1	ODW VOL 23 NO 3	
MEXICO CITY		JUL-DEC 1982	1	ODW VOL 24 NO 1	
MEXICO CITY		JAN-JUL 1983	1	ODW VOL 24 NO 4	
MEXICO CITY		AUG-OCT 1983	1	ODW VOL 24 NO 5	
MOSCOW	27612	JUL-NOV 1979	1	ODW VOL 21 NO 4	DELAYED
MOSCOW	27612	1/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
MOSCOW	27612	FEB 1980	1	ODW VOL 22 NO 5	CORRECTION
MOSCOW	27612	MAY-AUG 1981	1	ODW VOL 22 NO 5	
MOSCOW	27612	SEP-NOV 1981	1	ODW VOL 22 NO 6	
MOSCOW	27612	JAN-APR 1982	1	ODW VOL 23 NO 2	
MOSCOW	27612	MAY-NOV 1982	1	ODW VOL 24 NO 4	DELAYED
MOUNT ABU	42540	DEC 1979	2	ODW VOL 21 NO 2	CORRECTIONS
MOUNT ABU	42540	JAN-APR 1980	3	ODW VOL 21 NO 2	APR.ONE ONLY.NO MAR.TOT
MOUNT ABU	42540	MAY-JUN 1980	3	ODW VOL 21 NO 3	
MOUNT ABU	42540	JUL-AUG 1980	1	ODW VOL 21 NO 4	

DATA TYPE CODE

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7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
MOUNT ABU	42540	SEP-DEC 1980	1	ODW VOL 21 NO 6	
MOUNT ABU	42540	JAN-FEB 1981	1	ODW VOL 22 NO 1	
MOUNT ABU	42540	MAR-JUN 1981	1	ODW VOL 22 NO 3	
MOUNT ABU	42540	JUL-OCT 1981	1	ODW VOL 22 NO 5	
MOUNT ABU	42540	7/81- 2/82	1	ODW VOL 23 NO 2	CORRECTIONS
MOUNT ABU	42540	NOV-DEC 1981	1	ODW VOL 22 NO 6	
MOUNT ABU	42540	NOV-DEC 1981	1	ODW VOL 23 NO 1	DELAYED
MOUNT ABU	42540	JAN-FEB 1982	1	ODW VOL 23 NO 1	
MOUNT ABU	42540	MAR-APR 1982	1	ODW VOL 23 NO 2	
MURMANSK	22113	MAY-OCT 1979	1	ODW VOL 21 NO 4	DELAYED
MURMANSK	22113	MAR 1979	1	ODW VOL 22 NO 3	CORRECTIONS
MURMANSK	22113	MAR-OCT 1980	1	ODW VOL 22 NO 3	DELAYED
MURMANSK	22113	SEP 1980	1	ODW VOL 22 NO 5	CORRECTION
MURMANSK	22113	MAR-AUG 1981	1	ODW VOL 22 NO 5	
MURMANSK	22113	SEP-OCT 1981	1	ODW VOL 22 NO 6	NO NOVEMBER DATA
MURMANSK	22113	MAR-APR 1982	1	ODW VOL 23 NO 2	
MURMANSK	22113	MAY-OCT 1982	1	ODW VOL 24 NO 4	DELAYED
NAGAEVO	25913	MAY-NOV 1979	1	ODW VOL 21 NO 4	DELAYED
NAGAEVO	25913	SEP 1979	1	ODW VOL 22 NO 3	CORRECTIONS
NAGAEVO	25913	2/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
NAGAEVO	25913	DEC 1980	1	ODW VOL 22 NO 5	CORRECTION
NAGAEVO	25913	MAY-AUG 1981	1	ODW VOL 22 NO 5	
NAGAEVO	25913	SEP-OCT 1981	1	ODW VOL 22 NO 6	
NAGAEVO	25913	FEB-APR 1982	1	ODW VOL 23 NO 2	
NAGAEVO	25913	MAY-NOV 1982	1	ODW VOL 24 NO 4	DELAYED
NAHA/KAGAMIZU	47936	1/79 - 2/80	1	ODW VOL 21 NO 2	CORRECTIONS
NAHA/KAGAMIZU	47936	JAN-APR 1980	3	ODW VOL 21 NO 2	NO FEB.UMK/JAN-FEB TOT
NAHA/KAGAMIZU	47936	MAR-JUN 1980	2	ODW VOL 21 NO 5	CORRECTIONS
NAHA/KAGAMIZU	47936	MAY-JUN 1980	3	ODW VOL 21 NO 3	NO MAY UMKEHRS
NAHA/KAGAMIZU	47936	JUL-AUG 1980	3	ODW VOL 21 NO 4	NO AUGUST UMKEHRS
NAHA/KAGAMIZU	47936	SEP-OCT 1980	3	ODW VOL 21 NO 5	SEP.UMKEHRS ONLY
NAHA/KAGAMIZU	47936	NOV-DEC 1980	3	ODW VOL 21 NO 6	NO NOVEMBER UMKEHRS
NAHA/KAGAMIZU	47936	JAN-FEB 1981	1	ODW VOL 22 NO 1	
NAHA/KAGAMIZU	47936	MAR-APR 1981	3	ODW VOL 22 NO 2	NO MARCH UMKEHRS
NAHA/KAGAMIZU	47936	MAR-JUN 1981	1	ODW VOL 22 NO 3	
NAHA/KAGAMIZU	47936	MAY-JUN 1981	2	ODW VOL 23 NO 3	2 CORRECTIONS
NAHA/KAGAMIZU	47936	JUL-AUG 1981	1	ODW VOL 22 NO 4	
NAHA/KAGAMIZU	47936	SEP-OCT 1981	3	ODW VOL 22 NO 5	
NAHA/KAGAMIZU	47936	OCT-DEC 1981	3	ODW VOL 22 NO 6	OCTOBER-UMKEHR ONLY
NAHA/KAGAMIZU	47936	JAN-FEB 1982	3	ODW VOL 23 NO 1	NO FEB UMKEHRS
NAHA/KAGAMIZU	47936	MAR-APR 1982	1	ODW VOL 23 NO 2	
NAHA/KAGAMIZU	47936	3-4/+9/ 1982	2	ODW VOL 24 NO 1	DELAYED
NAHA/KAGAMIZU	47936	MAY-JUN 1982	3	ODW VOL 23 NO 3	04 MAY UMKEHR ONLY
NAHA/KAGAMIZU	47936	JUL-AUG 1982	1	ODW VOL 23 NO 4	
NAHA/KAGAMIZU	47936	SEP-OCT 1982	3	ODW VOL 23 NO 5	NO SEP.UMKEHRS
NAHA/KAGAMIZU	47936	NOV-DEC 1982	3	ODW VOL 23 NO 6	NO DEC. UMKEHRS
NAHA/KAGAMIZU	47936	JAN-FEB 1983	1	ODW VOL 24 NO 1	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
NAHA/KAGAMIZU	47936	MAR-APR 1983	3	ODW VOL 24 NO 2	
NAHA/KAGAMIZU	47936	MAY-JUN 1983	1	ODW VOL 24 NO 3	
NAHA/KAGAMIZU	47936	JUL-AUG 1983	3	ODW VOL 24 NO 4	
NAHA/KAGAMIZU	47936	SEP-OCT 1983	3	ODW VOL 24 NO 5	
NAHA/KAGAMIZU	47936	NOV-DEC 1983	3	ODW VOL 24 NO 6	
NAMPULA	67237	JAN-FEB 1981	1	ODW VOL 22 NO 1	
NAMPULA	67237	MAR-APR 1981	1	ODW VOL 22 NO 2	
NAMPULA	67237	MAR-JUN 1981	1	ODW VOL 22 NO 3	
NAMPULA	67237	JUL-AUG 1981	1	ODW VOL 22 NO 4	
NAMPULA	67237	SEP-OCT 1981	1	ODW VOL 22 NO 5	
NAMPULA	67237	NOV-DEC 1981	1	ODW VOL 22 NO 6	
NAMPULA	67237	JAN-FEB 1982	1	ODW VOL 23 NO 1	
NAMPULA	67237	MAR-APR 1982	1	ODW VOL 23 NO 2	
NAMPULA	67237	MAY-AUG 1982	1	ODW VOL 23 NO 4	
NAMPULA	67237	SEP-OCT 1982	1	ODW VOL 23 NO 5	
NAMPULA	67237	NOV-DEC 1982	1	ODW VOL 24 NO 1	DELAYED
NASHVILLE	72327	JAN-FEB 1980	1	ODW VOL 21 NO 1	
NASHVILLE	72327	MAR-APR 1980	1	ODW VOL 21 NO 2	
NASHVILLE	72327	MAY-JUN 1980	1	ODW VOL 21 NO 3	
NASHVILLE	72327	AUG 1980	1	ODW VOL 21 NO 4	
NASHVILLE	72327	SEP-OCT 1980	1	ODW VOL 21 NO 5	
NASHVILLE	72327	NOV-DEC 1980	1	ODW VOL 21 NO 6	
NASHVILLE	72327	JAN-FEB 1981	1	ODW VOL 22 NO 1	
NASHVILLE	72327	MAR-APR 1981	1	ODW VOL 22 NO 2	
NASHVILLE	72327	MAR-JUN 1981	1	ODW VOL 22 NO 3	
NASHVILLE	72327	JUL 1981	1	ODW VOL 22 NO 4	
NASHVILLE	72327	OCT 1981	1	ODW VOL 22 NO 5	
NASHVILLE	72327	NOV-DEC 1981	1	ODW VOL 22 NO 6	
NASHVILLE	72327	JAN-FEB 1982	1	ODW VOL 23 NO 1	
NASHVILLE	72327	MAR-APR 1982	1	ODW VOL 23 NO 2	
NASHVILLE	72327	MAY-JUN 1982	1	ODW VOL 23 NO 3	
NASHVILLE	72327	JUL-AUG 1982	1	ODW VOL 23 NO 4	
NASHVILLE	72327	SEP-OCT 1982	1	ODW VOL 23 NO 5	
NASHVILLE	72327	NOV-DEC 1982	1	ODW VOL 23 NO 6	
NASHVILLE	72327	JAN-FEB 1983	1	ODW VOL 24 NO 1	
NASHVILLE	72327	MAR-APR 1983	1	ODW VOL 24 NO 2	
NASHVILLE	72327	MAY-JUN 1983	1	ODW VOL 24 NO 3	
NASHVILLE	72327	JUL-AUG 1983	1	ODW VOL 24 NO 4	
NASHVILLE	72327	SEP-OCT 1983	1	ODW VOL 24 NO 5	
NASHVILLE	72327	NOV-DEC 1983	1	ODW VOL 24 NO 6	
NATAL	82599	OCT-NOV 1979	4	ODW VOL 21 NO 1	
NATAL	82599	FEB-APR 1980	4	ODW VOL 21 NO 3	
NATAL	82599	APR-JUL 1980	4	ODW VOL 21 NO 4	
NATAL	82599	SEP-OCT 1980	4	ODW VOL 21 NO 5	
NATAL	82599	11/80 - 1/81	4	ODW VOL 22 NO 1	
NATAL	82599	MAR-APR 1981	4	ODW VOL 22 NO 2	
NATAL	82599	MAY-OCT 1981	4	ODW VOL 22 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
NATAL	82599	JAN 1982	4	ODW VOL 23 NO 2	
NATAL	82599	11/78-12/81	1	ODW VOL 23 NO 4	
NATAL	82599	JAN-DEC 1982	1	ODW VOL 23 NO 6	
NATAL	82599	JAN-APR 1983	1	ODW VOL 24 NO 3	
NEUGLOBSOW		JAN-FEB 1980	7	ODW VOL 21 NO 1	
NEUGLOBSOW		MAR-APR 1980	7	ODW VOL 21 NO 2	
NEUGLOBSOW		MAR-APR 1980	7	ODW VOL 21 NO 3	CORRECTIONS
NEUGLOBSOW		MAY-JUN 1980	7	ODW VOL 21 NO 3	
NEUGLOBSOW		JUL-AUG 1980	7	ODW VOL 21 NO 4	
NEUGLOBSOW		SEP-OCT 1980	7	ODW VOL 21 NO 5	
NEUGLOBSOW		9/80 - 4/81	7	ODW VOL 22 NO 3	DELAYED
NEUGLOBSOW		NOV-DEC 1980	7	ODW VOL 21 NO 6	
NEUGLOBSOW		JAN-FEB 1981	7	ODW VOL 22 NO 1	
NEUGLOBSOW		MAY-JUN 1981	7	ODW VOL 22 NO 3	
NEUGLOBSOW		JUL-AUG 1981	7	ODW VOL 22 NO 4	
NEUGLOBSOW		SEP 1981	7	ODW VOL 22 NO 5	
NEUGLOBSOW		FEB 1982	7	ODW VOL 23 NO 1	
NEUGLOBSOW		MAR-APR 1982	7	ODW VOL 23 NO 2	
NEUGLOBSOW		MAY-JUN 1982	7	ODW VOL 23 NO 3	
NEUGLOBSOW		JUL-AUG 1982	7	ODW VOL 23 NO 4	
NEUGLOBSOW		JUL-OCT 1982	7	ODW VOL 23 NO 5	JUL-AUG,CORRECTIONS.
NEUGLOBSOW		NOV-DEC 1982	7	ODW VOL 23 NO 6	
NEUGLOBSOW		JAN-FEB 1983	7	ODW VOL 24 NO 1	
NEUGLOBSOW		MAR-APR 1983	7	ODW VOL 24 NO 2	
NEUGLOBSOW		MAY-JUN 1983	7	ODW VOL 24 NO 3	
NEUGLOBSOW		JUL-AUG 1983	7	ODW VOL 24 NO 4	
NEUGLOBSOW		SEP-OCT 1983	7	ODW VOL 24 NO 5	
NEUGLOBSOW		NOV-DEC 1983	7	ODW VOL 24 NO 6	
NEW DELHI	42182	APR,JUN 1979	2	ODW VOL 21 NO 2	CORRECTIONS
NEW DELHI	42182	JAN-APR 1980	3	ODW VOL 21 NO 2	NO FEB,MAR UMKEHRS
NEW DELHI	42182	MAY-JUN 1980	3	ODW VOL 21 NO 3	
NEW DELHI	42182	JUL-AUG 1980	3	ODW VOL 21 NO 4	NO JULY UMKEHRS
NEW DELHI	42182	9/80 - 1/81	3	ODW VOL 22 NO 1	
NEW DELHI	42182	12/80 - 3/81	2	ODW VOL 22 NO 4	
NEW DELHI	42182	FEB-APR 1981	1	ODW VOL 22 NO 2	
NEW DELHI	42182	MAR-JUN 1981	1	ODW VOL 22 NO 3	
NEW DELHI	42182	APR-SEP 1981	2	ODW VOL 22 NO 6	
NEW DELHI	42182	APR-SEP 1981	2	ODW VOL 23 NO 2	SOME CORRECTIONS
NEW DELHI	42182	JUL-OCT 1981	1	ODW VOL 22 NO 6	
NEW DELHI	42182	OCT-DEC 1981	3	ODW VOL 23 NO 1	NOV-DEC TOTOZ ONLY.DELAY
NEW DELHI	42182	JAN-FEB 1982	1	ODW VOL 23 NO 2	
NEW DELHI	42182	JAN-MAY 1982	3	ODW VOL 23 NO 3	TOTOZ MAR-MAY ONLY
NEW DELHI	42182	JUN-DEC 1982	3	ODW VOL 24 NO 1	DELAYED
ODESSA	33837	MAY-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
ODESSA	33837	JAN-DEC 1980	1	ODW VOL 22 NO 3	DELAYED
ODESSA	33837	JAN-AUG 1981	1	ODW VOL 22 NO 5	
ODESSA	33837	SEP-DEC 1981	1	ODW VOL 22 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
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6. TYPE 1,2,4
7. SURFACE
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STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
ODESSA	33837	JAN-APR 1982	1	ODW VOL 23 NO 2	
ODESSA	33837	FEB-MAR 1982	1	ODW VOL 23 NO 6	CORRECTIONS
ODESSA	33837	MAY-OCT 1982	1	ODW VOL 24 NO 4	DELAYED
OMSK	28698	MAY-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
OMSK	28698	JAN-FEB 1979	1	ODW VOL 22 NO 3	CORRECTIONS
OMSK	28698	5/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
OMSK	28698	MAY-AUG 1981	1	ODW VOL 22 NO 5	
OMSK	28698	SEP 1981	1	ODW VOL 23 NO 3	CORRECTIONS
OMSK	28698	SEP-DEC 1981	1	ODW VOL 22 NO 6	
OMSK	28698	JAN-APR 1982	1	ODW VOL 23 NO 2	
OMSK	28698	MAY-DEC 1982	1	ODW VOL 24 NO 4	DELAYED
OSLO	01488	JAN-FEB 1980	1	ODW VOL 21 NO 1	
OSLO	01488	MAR-APR 1980	1	ODW VOL 21 NO 2	
OSLO	01488	MAY-JUN 1980	1	ODW VOL 21 NO 3	
OSLO	01488	JUL-AUG 1980	1	ODW VOL 21 NO 4	
OSLO	01488	SEP-OCT 1980	1	ODW VOL 21 NO 5	
OSLO	01488	NOV-DEC 1980	1	ODW VOL 21 NO 6	
OSLO	01488	JAN-FEB 1981	1	ODW VOL 22 NO 1	
OSLO	01488	MAR-APR 1981	1	ODW VOL 22 NO 2	
OSLO	01488	MAR-JUN 1981	1	ODW VOL 22 NO 3	
OSLO	01488	JUL-AUG 1981	1	ODW VOL 22 NO 4	
OSLO	01488	SEP-OCT 1981	1	ODW VOL 22 NO 5	
OSLO	01488	NOV-DEC 1981	1	ODW VOL 22 NO 6	
OSLO	01488	JAN-FEB 1982	1	ODW VOL 23 NO 1	
OSLO	01488	MAR-APR 1982	1	ODW VOL 23 NO 2	
OSLO	01488	MAY-JUN 1982	1	ODW VOL 23 NO 3	
OSLO	01488	JUL-AUG 1982	1	ODW VOL 23 NO 4	
OSLO	01488	SEP-OCT 1982	1	ODW VOL 23 NO 5	
OSLO	01488	NOV-DEC 1982	1	ODW VOL 23 NO 6	
OSLO	01488	JAN-FEB 1983	1	ODW VOL 24 NO 1	
OSLO	01488	MAR-APR 1983	1	ODW VOL 24 NO 2	
OSLO	01488	MAY-JUN 1983	1	ODW VOL 24 NO 3	
OSLO	01488	JUL-AUG 1983	1	ODW VOL 24 NO 4	
OSLO	01488	SEP-OCT 1983	1	ODW VOL 24 NO 5	
OSLO	01488	NOV-DEC 1983	1	ODW VOL 24 NO 6	
PALESTINE		FEB,OCT 1975	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
PALESTINE		APR,DEC 1976	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
PALESTINE		AUG-SEP 1979	2	ODW VOL 21 NO 3	DELAYED
PALESTINE		APR 1980	2	ODW VOL 21 NO 3	
PERTH	94608	8/72 -12/81	2	ODW VOL 23 NO 4	DELAYED
PERTH	94608	JAN-FEB 1980	1	ODW VOL 21 NO 1	
PERTH	94608	MAR-AUG 1980	1	ODW VOL 21 NO 4	
PERTH	94608	SEP-OCT 1980	1	ODW VOL 21 NO 5	
PERTH	94608	11/80 - 6/81	1	ODW VOL 22 NO 3	
PERTH	94608	JUL 1981	1	ODW VOL 22 NO 4	
PERTH	94608	JUL-OCT 1981	1	ODW VOL 22 NO 5	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
PERTH	94608	NOV-DEC 1981	1	ODW VOL 22 NO 6	
PERTH	94608	11-12 DEC 81	2	ODW VOL 23 NO 5	CORRECTIONS
PERTH	94608	JAN-APR 1982	1	ODW VOL 23 NO 2	
PERTH	94608	JAN-FEB 1982	1	ODW VOL 23 NO 3	CORRECTIONS
PERTH	94608	MAY-AUG 1982	1	ODW VOL 23 NO 4	
PERTH	94608	SEP-DEC 1982	1	ODW VOL 23 NO 6	
PERTH	94608	FEB-APR 1983	1	ODW VOL 24 NO 2	
POKER FLAT		JUL-AUG 1980	4	ODW VOL 21 NO 4	
POKER FLAT		SEP-OCT 1980	4	ODW VOL 21 NO 5	
POKER FLAT		11/80 - 2/81	4	ODW VOL 22 NO 1	
POKER FLAT		MAR-APR 1981	4	ODW VOL 22 NO 2	
POKER FLAT		MAY 1981	4	ODW VOL 22 NO 3	
POKER FLAT		JUN 1981	4	ODW VOL 22 NO 4	
POKER FLAT		JUL-SEP 1981	4	ODW VOL 22 NO 6	
POONA	43063	4,5,12/1979	2	ODW VOL 21 NO 2	CORRECTIONS
POONA	43063	JAN-MAR 1980	3	ODW VOL 21 NO 2	
POONA	43063	6/80 - 1/81	3	ODW VOL 22 NO 1	UMKEHRS 12/80-1/81 ONLY
POONA	43063	FEB-APR 1981	1	ODW VOL 22 NO 2	
POONA	43063	FEB-MAR 1981	2	ODW VOL 22 NO 4	
POONA	43063	APR-OCT 1981	2	ODW VOL 22 NO 6	CORRECTIONS
POONA	43063	APR-MAY 1981	2	ODW VOL 23 NO 2	SOME CORRECTIONS
POONA	43063	MAY-JUN 1981	1	ODW VOL 22 NO 3	
POONA	43063	JUL-OCT 1981	1	ODW VOL 22 NO 6	
POONA	43063	OCT-DEC 1981	3	ODW VOL 23 NO 1	NOV-DEC TOTOZ ONLY.DELAY
POONA	43063	JAN-FEB 1982	1	ODW VOL 23 NO 2	
POONA	43063	JAN-MAY 1982	3	ODW VOL 23 NO 3	TOTOZ MAR-MAY ONLY
POONA	43063	JUN-DEC 1982	3	ODW VOL 24 NO 1	DELAYED
POONA	43063	FEB-MAR 1983	2	ODW VOL 24 NO 2	
POTSDAM	09379	JAN-FEB 1980	1	ODW VOL 21 NO 1	
POTSDAM	09379	MAR-APR 1980	1	ODW VOL 21 NO 2	
POTSDAM	09379	MAY-JUN 1980	1	ODW VOL 21 NO 3	
POTSDAM	09379	JUL-AUG 1980	1	ODW VOL 21 NO 4	
POTSDAM	09379	SEP-OCT 1980	1	ODW VOL 22 NO 5	DELAYED
POTSDAM	09379	SEP-DEC 1980	1	ODW VOL 21 NO 6	
POTSDAM	09379	JAN-FEB 1981	1	ODW VOL 22 NO 1	
POTSDAM	09379	MAY-JUN 1981	1	ODW VOL 22 NO 3	
POTSDAM	09379	JUL-AUG 1981	1	ODW VOL 22 NO 4	
POTSDAM	09379	SEP-OCT 1981	1	ODW VOL 22 NO 5	
POTSDAM	09379	NOV-DEC 1981	1	ODW VOL 22 NO 6	
POTSDAM	09379	NOV-DEC 1981	1	ODW VOL 23 NO 1	DELAYED
POTSDAM	09379	DEC 1981	1	ODW VOL 23 NO 3	CORRECTIONS
POTSDAM	09379	JAN-FEB 1982	1	ODW VOL 23 NO 1	
POTSDAM	09379	MAR-APR 1982	1	ODW VOL 23 NO 2	
POTSDAM	09379	MAY-JUN 1982	1	ODW VOL 23 NO 3	
POTSDAM	09379	JUL-AUG 1982	1	ODW VOL 23 NO 4	
POTSDAM	09379	SEP-OCT 1982	1	ODW VOL 23 NO 5	
POTSDAM	09379	NOV-DEC 1982	1	ODW VOL 23 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
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7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
POTSDAM	09379	JAN-FEB 1983	1	ODW VOL 24 NO 1	
POTSDAM	09379	MAR-APR 1983	1	ODW VOL 24 NO 2	
POTSDAM	09379	MAY-JUN 1983	1	ODW VOL 24 NO 3	
POTSDAM	09379	JUL-AUG 1983	1	ODW VOL 24 NO 4	
POTSDAM	09379	SEP-OCT 1983	1	ODW VOL 24 NO 5	
POTSDAM	09379	NOV-DEC 1983	1	ODW VOL 24 NO 6	
PRAGUE		2/80 - 4/83	4	ODW VOL 24 NO 5	
QUETTA	41661	JAN-FEB 1980	1	ODW VOL 21 NO 1	
QUETTA	41661	MAR-APR 1980	1	ODW VOL 21 NO 2	
QUETTA	41661	MAY-JUN 1980	1	ODW VOL 21 NO 3	
QUETTA	41661	JUL-AUG 1980	1	ODW VOL 21 NO 4	
QUETTA	41661	SEP-DEC 1980	1	ODW VOL 21 NO 6	
QUETTA	41661	JAN-FEB 1981	1	ODW VOL 22 NO 1	
QUETTA	41661	MAR-APR 1981	1	ODW VOL 22 NO 2	
QUETTA	41661	MAY-JUN 1981	1	ODW VOL 22 NO 3	
QUETTA	41661	JUL-AUG 1981	1	ODW VOL 22 NO 4	
QUETTA	41661	SEP-OCT 1981	1	ODW VOL 22 NO 5	
QUETTA	41661	NOV-DEC 1981	1	ODW VOL 22 NO 6	
QUETTA	41661	JAN-FEB 1982	1	ODW VOL 23 NO 1	
QUETTA	41661	MAR-APR 1982	1	ODW VOL 24 NO 1	DELAYED
QUETTA	41661	MAY-JUN 1982	1	ODW VOL 23 NO 3	
QUETTA	41661	JUL-AUG 1982	1	ODW VOL 23 NO 4	
QUETTA	41661	SEP-OCT 1982	1	ODW VOL 23 NO 5	
QUETTA	41661	NOV-DEC 1982	1	ODW VOL 23 NO 6	
QUETTA	41661	JAN-FEB 1983	1	ODW VOL 24 NO 1	
QUETTA	41661	MAR-APR 1983	1	ODW VOL 24 NO 2	
QUETTA	41661	MAY-JUN 1983	1	ODW VOL 24 NO 3	
QUETTA	41661	JUL-AUG 1983	1	ODW VOL 24 NO 4	
QUETTA	41661	SEP-OCT 1983	1	ODW VOL 24 NO 5	
QUETTA	41661	NOV-DEC 1983	1	ODW VOL 24 NO 6	
RESOLUTE	72924	JAN-FEB 1980	5	ODW VOL 21 NO 1	
RESOLUTE	72924	MAR-APR 1980	5	ODW VOL 21 NO 2	
RESOLUTE	72924	4/80- 4/81	2	ODW VOL 23 NO 1	DELAYED
RESOLUTE	72924	MAY-JUN 1980	5	ODW VOL 21 NO 3	NO JUN SONDES
RESOLUTE	72924	JUN-AUG 1980	5	ODW VOL 21 NO 4	NO JUNE TOTOZ
RESOLUTE	72924	SEP-OCT 1980	4	ODW VOL 21 NO 5	NO OCTOBER SONDES
RESOLUTE	72924	OCT-DEC 1980	5	ODW VOL 21 NO 6	NO NOV SONDS/OCT TOTOZ
RESOLUTE	72924	JAN-FEB 1981	5	ODW VOL 22 NO 1	
RESOLUTE	72924	MAR-APR 1981	5	ODW VOL 22 NO 2	
RESOLUTE	72924	MAY-JUN 1981	5	ODW VOL 22 NO 3	
RESOLUTE	72924	JUL-AUG 1981	5	ODW VOL 22 NO 4	
RESOLUTE	72924	SEP-OCT 1981	5	ODW VOL 22 NO 5	
RESOLUTE	72924	NOV-DEC 1981	5	ODW VOL 22 NO 6	
RESOLUTE	72924	JAN-FEB 1982	5	ODW VOL 23 NO 1	
RESOLUTE	72924	MAR-APR 1982	1	ODW VOL 23 NO 2	
RESOLUTE	72924	APR 1982	2	ODW VOL 23 NO 6	
RESOLUTE	72924	APR-JUN 1982	5	ODW VOL 23 NO 3	TOTOZ MAY-JUN ONLY

DATA TYPE CODE

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7. SURFACE
8. TYPE 1,7
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STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
RESOLUTE	72924	JUL-AUG 1982	5	ODW VOL 23 NO 4	
RESOLUTE	72924	SEP-OCT 1982	5	ODW VOL 23 NO 5	
RESOLUTE	72924	NOV-DEC 1982	5	ODW VOL 23 NO 6	
RESOLUTE	72924	JAN-FEB 1983	5	ODW VOL 24 NO 1	
RESOLUTE	72924	FEB 1983	4	ODW VOL 24 NO 2	DELAYED
RESOLUTE	72924	MAR-APR 1983	1	ODW VOL 24 NO 2	
RESOLUTE	72924	APR-JUN 1983	3	ODW VOL 24 NO 3	NO APR TOTOZ/NO JUN UNK.
RESOLUTE	72924	MAR-APR 1983	4	ODW VOL 24 NO 4	
RESOLUTE	72924	MAY 1983	4	ODW VOL 24 NO 6	
RESOLUTE	72924	JUL-AUG 1983	1	ODW VOL 24 NO 4	
RESOLUTE	72924	SEP-OCT 1983	1	ODW VOL 24 NO 5	
REYKJAVIK	04030	APR,AUG 1978	1	ODW VOL 23 NO 3	CORRECTIONS
REYKJAVIK	04030	JAN-FEB 1980	1	ODW VOL 21 NO 1	
REYKJAVIK	04030	MAR-APR 1980	1	ODW VOL 21 NO 2	
REYKJAVIK	04030	MAY-JUN 1980	1	ODW VOL 21 NO 3	
REYKJAVIK	04030	JUL-AUG 1980	1	ODW VOL 21 NO 4	
REYKJAVIK	04030	SEP-OCT 1980	1	ODW VOL 21 NO 5	
REYKJAVIK	04030	NOV-DEC 1980	1	ODW VOL 21 NO 6	
REYKJAVIK	04030	JAN-FEB 1981	1	ODW VOL 22 NO 1	
REYKJAVIK	04030	MAR-APR 1981	1	ODW VOL 22 NO 2	
REYKJAVIK		MAR,AUG 1981	1	ODW VOL 23 NO 3	CORRECTIONS
REYKJAVIK	04030	MAY-JUN 1981	1	ODW VOL 22 NO 3	
REYKJAVIK	04030	JUL-AUG 1981	1	ODW VOL 22 NO 4	
REYKJAVIK	04030	SEP-OCT 1981	1	ODW VOL 22 NO 5	
REYKJAVIK	04030	NOV-DEC 1981	1	ODW VOL 22 NO 6	
REYKJAVIK	04030	JAN-FEB 1982	1	ODW VOL 23 NO 1	
REYKJAVIK	04030	MAR-APR 1982	1	ODW VOL 23 NO 2	
REYKJAVIK	04030	MAY-JUN 1982	1	ODW VOL 23 NO 3	
REYKJAVIK	04030	JUL-AUG 1982	1	ODW VOL 23 NO 4	
REYKJAVIK	04030	SEP-OCT 1982	1	ODW VOL 23 NO 5	
REYKJAVIK	04030	NOV-DEC 1982	1	ODW VOL 23 NO 6	
REYKJAVIK	04030	JAN-FEB 1983	1	ODW VOL 24 NO 1	
REYKJAVIK	04030	MAR-APR 1983	1	ODW VOL 24 NO 2	
REYKJAVIK	04030	MAY-JUN 1983	1	ODW VOL 24 NO 3	
REYKJAVIK	04030	JUL-AUG 1983	1	ODW VOL 24 NO 4	
REYKJAVIK	04030	SEP-OCT 1983	1	ODW VOL 24 NO 5	
RIGA	26422	FEB-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
RIGA	26422	MAR 1979	1	ODW VOL 22 NO 3	CORRECTIONS
RIGA	26422	1/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
RIGA	26422	MAY-AUG 1981	1	ODW VOL 22 NO 5	
RIGA	26422	SEP-NOV 1981	1	ODW VOL 22 NO 6	NO DECEMBER DATA
RIGA	26422	JAN-APR 1982	1	ODW VOL 23 NO 2	
RIGA	26422	MAY-NOV 1982	1	ODW VOL 24 NO 4	DELAYED
SAN DIEGO		MAY-JUN 1977	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
ST.HELENA		JAN-FEB 1980	1	ODW VOL 21 NO 1	
ST.HELENA		MAR-APR 1980	1	ODW VOL 21 NO 2	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
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3. TYPE 1,2
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5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
ST.HELENA		MAY-JUN 1980	1	ODW VOL 21 NO 3	
ST.HELENA		JUL 1980	1	ODW VOL 21 NO 4	
ST.HELENA		SEP-OCT 1980	1	ODW VOL 21 NO 5	
ST.HELENA		OCT-DEC 1980	1	ODW VOL 21 NO 6	
ST.HELENA		JAN-FEB 1981	1	ODW VOL 22 NO 1	
ST.HELENA		JUL-AUG 1981	1	ODW VOL 22 NO 5	
ST.HELENA		SEP-NOV 1981	1	ODW VOL 22 NO 6	
ST.HELENA		12/81 -10/82	1	ODW VOL 23 NO 5	
ST.HELENA		NOV-DEC 1982	1	ODW VOL 23 NO 6	
ST.HELENA		JAN-FEB 1983	1	ODW VOL 24 NO 1	
ST.HELENA		MAY-JUN 1983	1	ODW VOL 24 NO 3	
ST.HELENA		JUL-AUG 1983	1	ODW VOL 24 NO 4	
ST.HELENA		SEP 1983	1	ODW VOL 24 NO 5	
SAMOA		JAN-DEC 1979	7	ODW VOL 21 NO 3	CORRECTIONS
SAMOA		1/79 - 8/80	1	ODW VOL 21 NO 5	CORRECTIONS
SAMOA		JAN-FEB 1980	1	ODW VOL 21 NO 1	
SAMOA		JAN-DEC 1980	7	ODW VOL 22 NO 3	DELAYED
SAMOA		MAR-APR 1980	1	ODW VOL 21 NO 2	
SAMOA		MAY-JUN 1980	1	ODW VOL 21 NO 3	
SAMOA		JUL-AUG 1980	1	ODW VOL 21 NO 4	
SAMOA		SEP-OCT 1980	1	ODW VOL 21 NO 5	
SAMOA		NOV-DEC 1980	1	ODW VOL 21 NO 6	
SAMOA		JAN-FEB 1981	1	ODW VOL 22 NO 1	
SAMOA		1/81 -12/82	5	ODW VOL 24 NO 4	CORRECTIONS
SAMOA		MAR 1981	1	ODW VOL 22 NO 2	
SAMOA		MAY-JUN 1981	1	ODW VOL 22 NO 3	
SAMOA		JUL-AUG 1981	1	ODW VOL 22 NO 4	
SAMOA		SEP-OCT 1981	1	ODW VOL 22 NO 5	
SAMOA		NOV-DEC 1981	1	ODW VOL 22 NO 6	
SAMOA		JAN-FEB 1982	1	ODW VOL 23 NO 1	
SAMOA		MAR-APR 1982	1	ODW VOL 23 NO 2	
SAMOA		MAY-JUN 1982	1	ODW VOL 23 NO 3	
SAMOA		JUL-AUG 1982	1	ODW VOL 23 NO 4	
SAMOA		SEP-OCT 1982	1	ODW VOL 23 NO 5	
SAMOA		NOV-DEC 1982	1	ODW VOL 23 NO 6	
SAMOA		JAN-FEB 1983	1	ODW VOL 24 NO 1	
SAMOA		MAR-APR 1983	1	ODW VOL 24 NO 2	
SAMOA		MAY-JUN 1983	1	ODW VOL 24 NO 3	
SAMOA		JUL-AUG 1983	1	ODW VOL 24 NO 4	
SAMOA		SEP-OCT 1983	1	ODW VOL 24 NO 5	
SAMOA		NOV-DEC 1983	1	ODW VOL 24 NO 6	
SAN JUAN		SEP 1976	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
SAPPORO	47412	1/79 - 2/80	3	ODW VOL 21 NO 2	CORRECTIONS
SAPPORO	47412	JAN-DEC 1980	4	ODW VOL 22 NO 1	CORRECTIONS
SAPPORO	47412	MAR-APR 1980	3	ODW VOL 21 NO 2	
SAPPORO	47412	MAY-JUN 1980	3	ODW VOL 21 NO 3	
SAPPORO	47412	JUL-AUG 1980	3	ODW VOL 21 NO 4	

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STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
SAPPORO	47412	SEP-OCT 1980	3	ODW VOL 21 NO 5	
SAPPORO	47412	NOV-DEC 1980	3	ODW VOL 21 NO 6	NO DEC.UMKEHRS
SAPPORO	47412	JAN-FEB 1981	1	ODW VOL 22 NO 1	
SAPPORO	47412	MAR-APR 1981	3	ODW VOL 22 NO 2	NO MARCH UMKEHRS
SAPPORO	47412	MAY-JUN 1981	1	ODW VOL 22 NO 3	
SAPPORO	47412	JUL-AUG 1981	3	ODW VOL 22 NO 4	NO AUGUST UMKEHRS
SAPPORO	47412	SEP-OCT 1981	3	ODW VOL 22 NO 5	
SAPPORO	47412	NOV-DEC 1981	3	ODW VOL 22 NO 6	
SAPPORO	47412	JAN-DEC 1981	5	ODW VOL 23 NO 1	CORRECTIONS
SAPPORO	47412	MAY-JUN 1981	2	ODW VOL 23 NO 3	6 CORRECTIONS
SAPPORO	47412	JAN-FEB 1982	1	ODW VOL 23 NO 1	
SAPPORO	47412	JAN-OCT 1982	1	ODW VOL 23 NO 6	CORRECTIONS
SAPPORO	47412	MAR-APR 1982	1	ODW VOL 23 NO 2	
SAPPORO	47412	MAR-NOV 1982	2	ODW VOL 23 NO 6	
SAPPORO	47412	MAY-JUN 1982	3	ODW VOL 23 NO 3	
SAPPORO	47412	JUL-AUG 1982	3	ODW VOL 23 NO 4	NO AUGUST UMKEHRS
SAPPORO	47412	SEP-OCT 1982	3	ODW VOL 23 NO 5	NO SEP.UMKEHRS
SAPPORO	47412	NOV-DEC 1982	1	ODW VOL 23 NO 6	
SAPPORO	47412	JAN-FEB 1983	3	ODW VOL 24 NO 1	UMKEHR 28/1/83 ONLY
SAPPORO	47412	MAR-APR 1983	3	ODW VOL 24 NO 2	
SAPPORO	47412	MAY-JUN 1983	3	ODW VOL 24 NO 3	
SAPPORO	47412	JUL-AUG 1983	3	ODW VOL 24 NO 4	
SAPPORO	47412	SEP-OCT 1983	3	ODW VOL 24 NO 5	
SAPPORO	47412	NOV-DEC 1983	1	ODW VOL 24 NO 6	
SESTOLA		JAN-FEB 1980	1	ODW VOL 21 NO 2	
SESTOLA		MAR-APR 1980	1	ODW VOL 21 NO 4	
SESTOLA		MAY-AUG 1980	1	ODW VOL 21 NO 5	
SESTOLA		FEB 1982	1	ODW VOL 23 NO 1	
SESTOLA		MAR-APR 1982	1	ODW VOL 23 NO 2	
SESTOLA		SEP-DEC 1982	1	ODW VOL 23 NO 6	
SESTOLA		JAN-FEB 1983	1	ODW VOL 24 NO 1	
SESTOLA		MAR-JUN 1983	1	ODW VOL 24 NO 3	
SESTOLA		JUL-AUG 1983	1	ODW VOL 24 NO 4	
SESTOLA		SEP-DEC 1983	1	ODW VOL 24 NO 6	
SHIANGHER		JAN-FEB 1980	1	ODW VOL 21 NO 1	
SHIANGHER		MAR-APR 1980	1	ODW VOL 21 NO 2	
SHIANGHER		MAY-JUN 1980	1	ODW VOL 21 NO 3	
SHIANGHER		JUL-AUG 1980	1	ODW VOL 21 NO 4	
SHIANGHER		SEP-OCT 1980	1	ODW VOL 21 NO 5	
SHIANGHER		NOV-DEC 1980	1	ODW VOL 21 NO 6	
SHIANGHER		JAN-FEB 1981	1	ODW VOL 22 NO 1	
SHIANGHER		MAR-APR 1981	1	ODW VOL 22 NO 2	
SHIANGHER		MAY-JUN 1981	1	ODW VOL 22 NO 3	
SHIANGHER		JUL-AUG 1981	1	ODW VOL 22 NO 4	
SHIANGHER		SEP-OCT 1981	1	ODW VOL 22 NO 5	
SHIANGHER		NOV-DEC 1981	1	ODW VOL 22 NO 6	
SHIANGHER		JAN-FEB 1982	1	ODW VOL 23 NO 1	
SHIANGHER		MAR-APR 1982	1	ODW VOL 23 NO 2	

DATA TYPE CODE

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STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
SHIANGHER		MAY-JUN 1982	1	ODW VOL 23 NO 3	
SHIANGHER		JUL-AUG 1982	1	ODW VOL 23 NO 4	
SHIANGHER		SEP-OCT 1982	1	ODW VOL 23 NO 5	
SHIANGHER		NOV-DEC 1982	1	ODW VOL 23 NO 6	
SHIANGHER		JAN-FEB 1983	1	ODW VOL 24 NO 1	
SHIANGHER		MAR-APR 1983	1	ODW VOL 24 NO 2	
SHIANGHER		MAY-JUN 1983	1	ODW VOL 24 NO 3	
SHIANGHER		JUL-AUG 1983	1	ODW VOL 24 NO 4	
SHIANGHER		SEP-OCT 1983	1	ODW VOL 24 NO 5	
SHIANGHER		NOV-DEC 1983	1	ODW VOL 24 NO 6	
SIBTON		6/78 , 1/81	7	ODW VOL 22 NO 3	CORRECTIONS
SIBTON		7/77 - 4/81	7	ODW VOL 22 NO 2	
SIBTON		MAY-JUN 1981	7	ODW VOL 22 NO 3	
SIBTON		JUL-AUG 1981	7	ODW VOL 22 NO 4	
SIBTON		JAN-FEB 1982	7	ODW VOL 23 NO 1	
SIBTON		MAR-APR 1982	7	ODW VOL 23 NO 2	
SIBTON		MAY-JUN 1982	7	ODW VOL 23 NO 3	
SIBTON		JUL-AUG 1982	7	ODW VOL 23 NO 4	
SIBTON		SEP-OCT 1982	7	ODW VOL 23 NO 5	
SIBTON		NOV-DEC 1982	7	ODW VOL 23 NO 6	
SIBTON		JAN 1983	7	ODW VOL 24 NO 1	
SIBTON		MAR-APR 1983	7	ODW VOL 24 NO 2	
SIBTON		MAY-JUN 1983	7	ODW VOL 24 NO 3	
SIBTON		JUL-AUG 1983	7	ODW VOL 24 NO 4	
SIBTON		SEP 1983	7	ODW VOL 24 NO 5	NO OCTOBER DATA
SIBTON		NOV-DEC 1983	7	ODW VOL 24 NO 6	
SINGAPORE		OCT-DEC 1980	1	ODW VOL 21 NO 6	
SINGAPORE		JAN-FEB 1981	1	ODW VOL 22 NO 1	
SINGAPORE		MAR-APR 1981	3	ODW VOL 22 NO 2	NO APRIL UMKEHRS
SINGAPORE		MAR-AUG 1981	2	ODW VOL 22 NO 4	
SINGAPORE		MAY-JUN 1981	3	ODW VOL 22 NO 3	NO JUNE TOTAL OZONE DATA
SINGAPORE		JUNE 1981	1	ODW VOL 23 NO 2	PREVIOUSLY MISSED
SINGAPORE		JUL-AUG 1981	1	ODW VOL 22 NO 4	
SINGAPORE		SEP-OCT 1981	3	ODW VOL 22 NO 5	
SINGAPORE		NOV-DEC 1981	3	ODW VOL 22 NO 6	
SINGAPORE		JAN-FEB 1982	3	ODW VOL 23 NO 1	
SINGAPORE		MAR-APR 1982	3	ODW VOL 23 NO 2	
SINGAPORE		MAY-JUN 1982	3	ODW VOL 23 NO 3	
SINGAPORE		JUL-AUG 1982	3	ODW VOL 23 NO 4	AND 29/3/82 UMKEHR CON.
SINGAPORE		SEP-OCT 1982	1	ODW VOL 24 NO 1	
SINGAPORE		NOV-DEC 1982	3	ODW VOL 23 NO 6	NO SEP-OCT DUE TO TESTS
SINGAPORE		JAN-FEB 1983	3	ODW VOL 24 NO 1	
SINGAPORE		MAR-APR 1983	3	ODW VOL 24 NO 2	
SINGAPORE		MAR-JUN 1983	3	ODW VOL 24 NO 3	TOTOZ MAY-JUN ONLY
SINGAPORE		JUL-AUG 1983	3	ODW VOL 24 NO 4	
SINGAPORE		SEP-OCT 1983	3	ODW VOL 24 NO 5	
SINGAPORE		NOV-DEC 1983	3	ODW VOL 24 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
SPOKANE		AUG 1976	4	ODW VOL 22 NO 5	NASA SPECIAL PROJECT
SRINAGAR	42027	JAN-APR 1980	3	ODW VOL 21 NO 2	NO FEB,MAR UMKEHRS
SRINAGAR	42027	MAY-JUN 1980	3	ODW VOL 21 NO 3	
SRINAGAR	42027	JUL-AUG 1980	3	ODW VOL 21 NO 4	
SRINAGAR	42027	9/80 - 1/81	3	ODW VOL 22 NO 1	
SRINAGAR	42027	FEB-APR 1981	1	ODW VOL 22 NO 2	
SRINAGAR	42027	APR-SEP 1981	2	ODW VOL 22 NO 6	
SRINAGAR	42027	MAY-JUN 1981	1	ODW VOL 22 NO 3	
SRINAGAR	42027	10/80 ,3/81	2	ODW VOL 22 NO 4	
SRINAGAR	42027	JUL-OCT 1981	1	ODW VOL 22 NO 6	
SRINAGAR	42027	31 JULY 1981	2	ODW VOL 23 NO 2	CORRECTION
SRINAGAR	42027	OCT-DEC 1981	3	ODW VOL 23 NO 1	NO OCT TOTOZ. NO DEC UMK
SRINAGAR	42027	JAN-FEB 1982	1	ODW VOL 23 NO 2	
SRINAGAR	42027	MAY 1982	1	ODW VOL 23 NO 3	
SRINAGAR	42027	MAY 1982	2	ODW VOL 23 NO 4	
SRINAGAR	43539	JUN-DEC 1982	3	ODW VOL 24 NO 1	
SVALBARD HORNSUND		7/80 - 7/81	1	ODW VOL 22 NO 5	
SVALBARD HORNSUND		APR-AUG 1983	1	ODW VOL 24 NO 6	NO JULY DATA
SVERDLOVSK	28440	FEB-DEC 1979	1	ODW VOL 21 NO 4	DELAYED
SVERDLOVSK	28440	JAN-DEC 1980	1	ODW VOL 22 NO 3	DELAYED
SVERDLOUSK	28440	JAN-APR 1981	1	ODW VOL 22 NO 5	
SVERDLOUSK	28440	MAY-OCT 1981	1	ODW VOL 22 NO 6	
SYOWA	89532	2/79 - 1/80	5	ODW VOL 21 NO 2	10/79 SONDES ONLY
SYOWA	89532	2,3,11 1980	4	ODW VOL 22 NO 2	
SYOWA	89532	1/80 - 1/81	1	ODW VOL 22 NO 2	
SYOWA	89532	2/81 - 1/82	1	ODW VOL 23 NO 5	
SYOWA	89532	2/82 - 1/83	1	ODW VOL 24 NO 3	
SYOWA	89532	FEB-NOV 1982	2	ODW VOL 24 NO 4	
TALLAHASSEE	72214	OCT 1981	1	ODW VOL 22 NO 5	
TALLAHASSEE	72214	NOV-DEC 1981	1	ODW VOL 22 NO 6	
TALLAHASSEE	72214	JAN-FEB 1982	1	ODW VOL 23 NO 1	
TALLAHASSEE	72214	MAR-APR 1982	1	ODW VOL 23 NO 2	
TALLAHASSEE	72214	JUN 1982	1	ODW VOL 23 NO 3	
TALLAHASSEE	72214	JUL-AUG 1982	1	ODW VOL 23 NO 4	
TALLAHASSEE	72214	SEP-OCT 1982	1	ODW VOL 23 NO 5	
TALLAHASSEE	72214	NOV-DEC 1982	1	ODW VOL 23 NO 6	
TALLAHASSEE	72214	JAN-FEB 1983	1	ODW VOL 24 NO 1	
TALLAHASSEE	72214	MAR-APR 1983	1	ODW VOL 24 NO 2	
TALLAHASSEE	72214	MAY-JUN 1983	1	ODW VOL 24 NO 3	
TALLAHASSEE	72214	SEP-OCT 1983	1	ODW VOL 24 NO 5	
TALLAHASSEE	72214	NOV-DEC 1983	1	ODW VOL 24 NO 6	
TATENO	47646	MAY 1975	2	ODW VOL 22 NO 2	PREVIOUSLY UNPUBLISHED
TATENO	47646	1/79 - 2/80	3	ODW VOL 21 NO 2	CORRECTIONS
TATENO	47646	JAN-APR 1980	3	ODW VOL 21 NO 2	NO JAN-FEB TOTOZ.

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
TATENO	47646	MAY-JUN 1980	3	ODW VOL 21 NO 3	
TATENO	47646	JUL-AUG 1980	3	ODW VOL 21 NO 4	NO JULY UMKEHRS
TATENO	47646	SEP-OCT 1980	3	ODW VOL 21 NO 5	
TATENO	47646	NOV-DEC 1980	3	ODW VOL 21 NO 6	
TATENO	47646	JAN-DEC 1980	4	ODW VOL 22 NO 1	CORRECTIONS
TATENO	47646	JAN-FEB 1981	1	ODW VOL 22 NO 1	
TATENO	47646	JAN-DEC 1981	4	ODW VOL 23 NO 1	CORRECTIONS
TATENO	47646	MAR-APR 1981	3	ODW VOL 22 NO 2	
TATENO	47646	MAY-JUN 1981	1	ODW VOL 22 NO 3	
TATENO	47646	MAY-JUN 1981	2	ODW VOL 23 NO 3	10 CORRECTIONS
TATENO	47646	JUL-AUG 1981	3	ODW VOL 22 NO 4	
TATENO	47646	SEP-OCT 1981	3	ODW VOL 22 NO 5	
TATENO	47646	NOV-DEC 1981	3	ODW VOL 22 NO 6	
TATENO	47646	JAN-FEB 1982	3	ODW VOL 23 NO 1	
TATENO	47646	JAN-OCT 1982	1	ODW VOL 23 NO 6	CORRECTIONS
TATENO	47646	JAN-DEC 1982	4	ODW VOL 23 NO 6	
TATENO	47646	MAR-APR 1982	1	ODW VOL 23 NO 2	
TATENO	47646	3-4/+9/ 1982	2	ODW VOL 24 NO 1	DELAYED
TATENO	47646	MAY-JUN 1982	3	ODW VOL 23 NO 3	
TATENO	47646	JUL-AUG 1982	3	ODW VOL 23 NO 4	
TATENO	47646	SEP-OCT 1982	3	ODW VOL 23 NO 5	NO SEPTEMBER UMKEHRS
TATENO	47646	NOV-DEC 1982	3	ODW VOL 23 NO 6	
TATENO	47646	JAN-FEB 1983	3	ODW VOL 24 NO 1	
TATENO	47646	MAR-APR 1983	3	ODW VOL 24 NO 2	
TATENO	47646	MAY-JUN 1983	3	ODW VOL 24 NO 3	
TATENO	47646	JUL-AUG 1983	3	ODW VOL 24 NO 4	
TATENO	47646	SEP-OCT 1983	3	ODW VOL 24 NO 5	
TATENO	47646	NOV-DEC 1983	3	ODW VOL 24 NO 6	
TORONTO		JAN-FEB 1980	1	ODW VOL 21 NO 1	
TORONTO		MAR-APR 1980	5	ODW VOL 21 NO 2	
TORONTO		MAY-JUN 1980	1	ODW VOL 21 NO 3	
TORONTO		JUL-AUG 1980	1	ODW VOL 21 NO 4	
TORONTO		SEP-OCT 1980	1	ODW VOL 21 NO 5	
TORONTO		NOV-DEC 1980	1	ODW VOL 21 NO 6	
TORONTO		JAN-FEB 1981	1	ODW VOL 22 NO 1	
TORONTO		MAR-APR 1981	1	ODW VOL 22 NO 2	
TORONTO		MAY-JUN 1981	1	ODW VOL 22 NO 3	
TORONTO		JUL-AUG 1981	1	ODW VOL 22 NO 4	
TORONTO		SEP-OCT 1981	1	ODW VOL 22 NO 5	
TORONTO		NOV-DEC 1981	1	ODW VOL 22 NO 6	
TORONTO		JAN-FEB 1982	1	ODW VOL 23 NO 1	
TORONTO		MAR-APR 1982	5	ODW VOL 23 NO 2	SOND MARCH 3 ONLY
TORONTO		MAY-JUN 1982	1	ODW VOL 23 NO 3	
TORONTO		JUL-AUG 1982	1	ODW VOL 23 NO 4	
TORONTO		SEP-OCT 1982	1	ODW VOL 23 NO 5	
TORONTO		NOV-DEC 1982	1	ODW VOL 23 NO 6	
TORONTO		JAN-FEB 1983	1	ODW VOL 24 NO 1	
TORONTO		MAR-APR 1983	1	ODW VOL 24 NO 2	
TORONTO		MAY-JUN 1983	1	ODW VOL 24 NO 3	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
TORONTO		JUL-AUG 1983	1	ODW VOL 24 NO 4	
TORONTO		SEP-OCT 1983	1	ODW VOL 24 NO 5	
TRIVANDRUM	43371	11/82 - 4/83	2	ODW VOL 24 NO 2	
UCCLE	06447	AUG-NOV 1979	1	ODW VOL 21 NO 1	
UCCLE	06447	12/79 - 4/80	1	ODW VOL 21 NO 2	
UCCLE	06447	JAN-AUG 1980	1	ODW VOL 22 NO 1	CORRECTIONS
UCCLE	06447	NOV-DEC 1980	1	ODW VOL 22 NO 1	
UCCLE	06447	JAN-APR 1981	1	ODW VOL 22 NO 2	
UCCLE	06447	MAY-AUG 1981	1	ODW VOL 22 NO 4	
UCCLE	06447	SEP-OCT 1981	1	ODW VOL 22 NO 5	
UCCLE	06447	NOV-DEC 1981	1	ODW VOL 22 NO 6	
UCCLE	06447	JAN-FEB 1982	1	ODW VOL 23 NO 1	
UCCLE	06447	MAR-APR 1982	1	ODW VOL 23 NO 2	
UCCLE	06447	MAY-JUN 1982	1	ODW VOL 23 NO 3	
UCCLE	06447	JUL-AUG 1982	1	ODW VOL 23 NO 4	
UCCLE	06447	SEP-DEC 1982	1	ODW VOL 23 NO 6	
UCCLE	06447	JAN-FEB 1983	1	ODW VOL 24 NO 1	
UCCLE	06447	MAR-APR 1983	1	ODW VOL 24 NO 2	
UCCLE	06447	MAY-AUG 1983	1	ODW VOL 24 NO 4	
UCCLE	06447	SEP-DEC 1983	1	ODW VOL 24 NO 6	
VARANASI	42479	JAN-APR 1980	3	ODW VOL 21 NO 2	
VARANASI	42479	MAY-JUN 1980	3	ODW VOL 21 NO 3	NO JUNE UNKEHRS
VARANASI	42479	JUL-AUG 1980	1	ODW VOL 21 NO 4	
VARANASI	42479	9/80- 1/81	3	ODW VOL 22 NO 1	NO JAN 81 UNKEHRS
VARANASI	42479	FEB-APR 1981	1	ODW VOL 22 NO 2	
VARANASI	42479	JAN-FEB 1981	2	ODW VOL 22 NO 4	
VARANASI	42479	26 MAR. 1981	2	ODW VOL 23 NO 2	CORRECTION
VARANASI	42479	MAY-JUN 1981	1	ODW VOL 22 NO 3	
VARANASI	42479	APR-JUN 1981	2	ODW VOL 22 NO 6	
VARANASI	42479	JUL-OCT 1981	1	ODW VOL 22 NO 6	
VARANASI	43539	OCT-DEC 1981	3	ODW VOL 23 NO 1	NO OCT TOTOZ. DELAYED.
VARANASI	42479	JAN-FEB 1982	1	ODW VOL 23 NO 2	
VARANASI	42479	MAR-MAY 1982	1	ODW VOL 23 NO 3	
VARANASI	42479	MAR 1982	2	ODW VOL 23 NO 4	DELAYED
VARANASI	42479	JUN-DEC 1982	3	ODW VOL 24 NO 1	
VIGNA DI VALLE	16224	JAN-FEB 1980	1	ODW VOL 21 NO 2	
VIGNA DI VALLE	16224	MAR-APR 1980	1	ODW VOL 21 NO 4	
VIGNA DI VALLE	16224	JAN-FEB 1981	1	ODW VOL 22 NO 2	
VIGNA DI VALLE	16224	SEP-DEC 1981	1	ODW VOL 22 NO 6	
VIGNA DI VALLE	16224	JAN-FEB 1982	1	ODW VOL 23 NO 1	
VIGNA DI VALLE	16224	MAR-APR 1982	1	ODW VOL 23 NO 2	
VIGNA DI VALLE	16224	MAY-AUG 1982	1	ODW VOL 23 NO 4	
VIGNA DI VALLE	16224	SEP-DEC 1982	1	ODW VOL 23 NO 6	
VIGNA DI VALLE	16224	MAR-JUN 1983	1	ODW VOL 24 NO 3	
VIGNA DI VALLE	16224	JUL-AUG 1983	1	ODW VOL 24 NO 4	
VIGNA DI VALLE	16224	SEP-DEC 1983	1	ODW VOL 24 NO 6	

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UNKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
VLADIVOSTOK	31690	MAY-DEC 1979	1	ODM VOL 21 NO 4	DELAYED
VLADIVOSTOK	31690	JAN,MAR 1979	1	ODM VOL 22 NO 3	CORRECTIONS
VLADIVOSTOK	31690	JAN-AUG 1981	1	ODM VOL 22 NO 5	
VLADIVOSTOK	31690	SEP-DEC 1981	1	ODM VOL 22 NO 6	
VLADIVOSTOK	31690	JAN-APR 1982	1	ODM VOL 23 NO 2	
VLADIVOSTOK	31690	MAY-DEC 1982	1	ODM VOL 24 NO 4	DELAYED
WALLOPS ISLAND	72402	OCT-DEC 1979	4	ODM VOL 21 NO 1	
WALLOPS ISLAND	72402	OCT-DEC 1979	4	ODM VOL 21 NO 3	CORRECTIONS
WALLOPS ISLAND	72402	10/79 - 3/80	4	ODM VOL 21 NO 2	
WALLOPS ISLAND	72402	JAN-FEB 1980	1	ODM VOL 21 NO 1	
WALLOPS ISLAND	72402	MAR-APR 1980	1	ODM VOL 21 NO 2	
WALLOPS ISLAND	72402	APR-JUN 1980	5	ODM VOL 21 NO 3	SONDE DATA ONLY IN APRIL
WALLOPS ISLAND	72402	JUL-AUG 1980	5	ODM VOL 21 NO 4	
WALLOPS ISLAND	72402	SEP-OCT 1980	5	ODM VOL 21 NO 5	
WALLOPS ISLAND	72402	NOV-DEC 1980	5	ODM VOL 21 NO 6	
WALLOPS ISLAND	72402	JAN-FEB 1981	5	ODM VOL 22 NO 1	
WALLOPS ISLAND	72402	MAR-APR 1981	5	ODM VOL 22 NO 2	
WALLOPS ISLAND	72402	MAY-JUN 1981	5	ODM VOL 22 NO 3	NO JUNE SONDES
WALLOPS ISLAND	72402	6/81 - 1/82	4	ODM VOL 23 NO 2	
WALLOPS ISLAND	72402	JUN-NOV 1981	4	ODM VOL 22 NO 6	
WALLOPS ISLAND	72402	JUL-AUG 1981	5	ODM VOL 22 NO 4	
WALLOPS ISLAND	72402	SEP-OCT 1981	1	ODM VOL 22 NO 5	
WALLOPS ISLAND	72402	NOV-DEC 1981	1	ODM VOL 22 NO 6	
WALLOPS ISLAND	72402	JAN-FEB 1982	1	ODM VOL 23 NO 1	
WALLOPS ISLAND	72402	MAR-APR 1982	5	ODM VOL 23 NO 2	NO MARCH SONDES
WALLOPS ISLAND	72402	MAY-JUN 1982	1	ODM VOL 23 NO 3	
WALLOPS ISLAND	72402	JUL-AUG 1982	1	ODM VOL 23 NO 4	
WALLOPS ISLAND	72402	SEP-OCT 1982	1	ODM VOL 23 NO 5	
WALLOPS ISLAND	72402	NOV-DEC 1982	1	ODM VOL 23 NO 6	
WALLOPS ISLAND	72402	MAR-APR 1983	1	ODM VOL 24 NO 2	
WALLOPS ISLAND	72402	MAY-JUN 1983	1	ODM VOL 24 NO 3	
WALLOPS ISLAND	72402	JUL-AUG 1983	1	ODM VOL 24 NO 4	
WALLOPS ISLAND	72402	SEP-OCT 1983	1	ODM VOL 24 NO 5	
WALLOPS ISLAND	72401	NOV-DEC 1983	1	ODM VOL 24 NO 6	
WHITE SANDS	72269	JAN-FEB 1980	1	ODM VOL 21 NO 1	
WHITE SANDS	72269	MAR-APR 1980	1	ODM VOL 21 NO 2	
WHITE SANDS	72269	MAY-JUN 1980	1	ODM VOL 21 NO 3	
WHITE SANDS	72269	JUL-AUG 1980	1	ODM VOL 21 NO 4	
WHITE SANDS	72269	SEP-OCT 1980	1	ODM VOL 21 NO 5	
WHITE SANDS	72269	NOV-DEC 1980	1	ODM VOL 21 NO 6	
WHITE SANDS	72269	MAR-APR 1981	1	ODM VOL 22 NO 2	
WHITE SANDS	72269	MAY-JUN 1981	1	ODM VOL 22 NO 3	
WHITE SANDS	72269	JUL-AUG 1981	1	ODM VOL 22 NO 4	
WHITE SANDS	72269	SEP-OCT 1981	1	ODM VOL 22 NO 5	
WHITE SANDS	72269	NOV-DEC 1981	1	ODM VOL 22 NO 6	
WHITE SANDS	72269	JAN 1982	1	ODM VOL 23 NO 1	PROGRM TERMINATED JAN 29

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

STATION	WMO NO.	PERIOD	DATA TYPE	REFERENCE	OTHER / AUTRE INFORMATION
YAKUTSK	24959	MAY-NOV 1979	1	ODW VOL 21 NO 4	DELAYED
YAKUTSK	24959	FEB-APR 1979	1	ODW VOL 22 NO 3	CORRECTIONS
YAKUTSK	24959	5/80 - 4/81	1	ODW VOL 22 NO 3	DELAYED
YAKUTSK		MAY-AUG 1981	1	ODW VOL 22 NO 5	
YAKUTSK	24959	SEP-OCT 1981	1	ODW VOL 22 NO 6	
YAKUTSK	24959	FEB-APR 1982	1	ODW VOL 23 NO 2	
YAKUTSK	24959	MAY-NOV 1982	1	ODW VOL 24 NO 4	DELAYED

DATA TYPE CODE

1. TOTAL OZONE/OZONE TOTALE
2. UMKEHR
3. TYPE 1,2
4. OZONESONDE
5. TYPE 1,4
6. TYPE 1,2,4
7. SURFACE
8. TYPE 1,7
9. SURFACE+OTHERS/AUTRES

POOR

QUALITY

ORIGINAL